



Chapter 4

Jeopardy



Standard
Form

Slope-
Intercept
Form

Parallel and
perpendicular
lines

Slope

Linear
Equation Word
Problems

100

100

100

100

300

200

200

200

200

400

300

300

300

300

500

400

400

400

400

600

The background features a warm, golden-yellow textured surface. At the top center, there are several autumn leaves in shades of green, yellow, and orange. The corners and sides are decorated with intricate, light-colored swirl patterns.

**Write the equation in
Standard Form**

$$y - 3 = 2.5(x + 1)$$

The background of the slide is a warm, golden-yellow color with a textured, paper-like appearance. It is decorated with white, stylized swirl patterns in the corners and along the bottom. At the top center, there are several autumn leaves in shades of green, yellow, and orange.
$$5x - 2y = -11$$



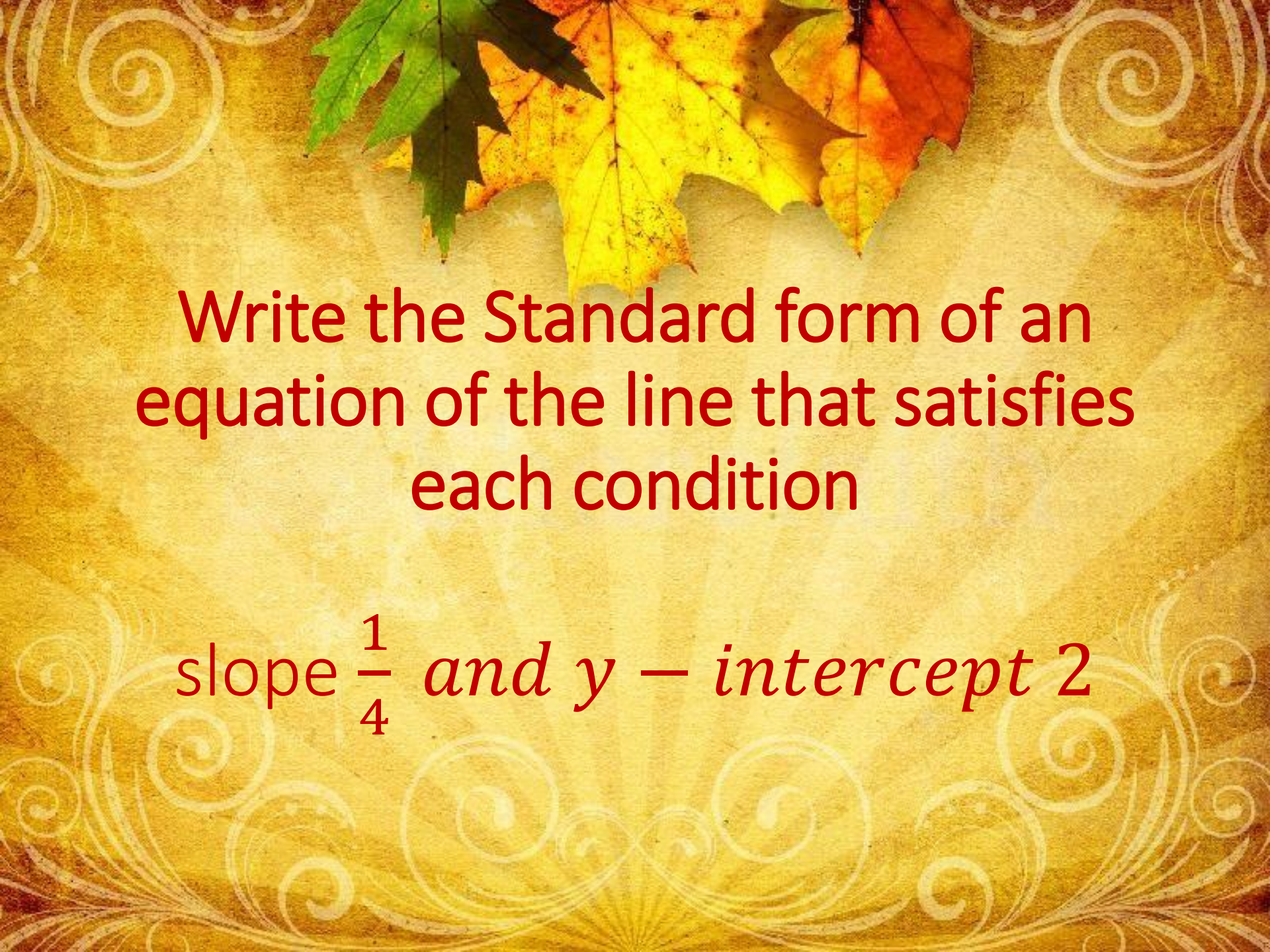
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**Write the equation in
Standard Form**

$$y = -\frac{1}{4}x - \frac{7}{2}$$

$$x + 4y = -14$$



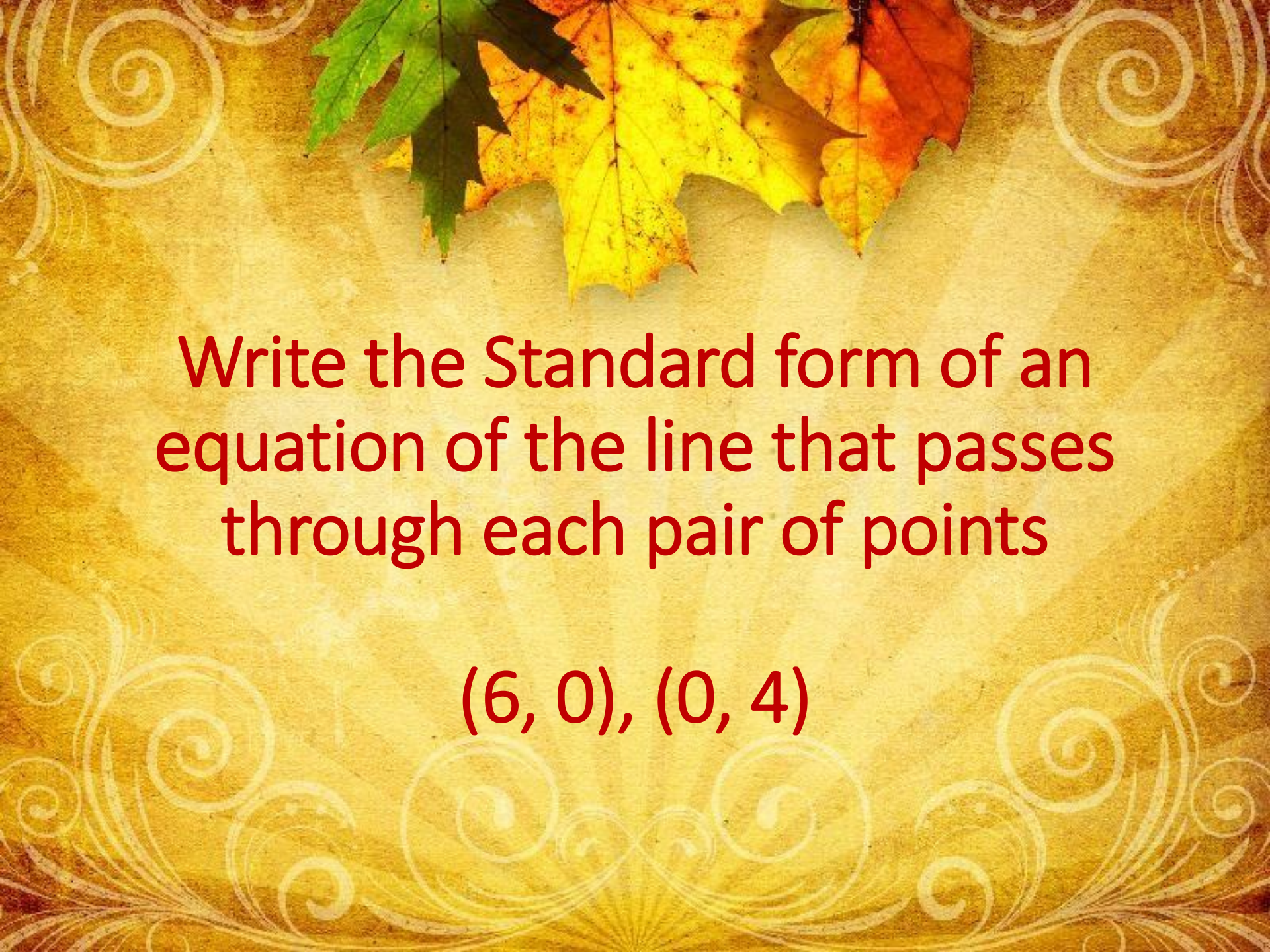
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Write the Standard form of an
equation of the line that satisfies
each condition

slope $\frac{1}{4}$ *and* y – *intercept* 2

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$$x - 4y = -8$$



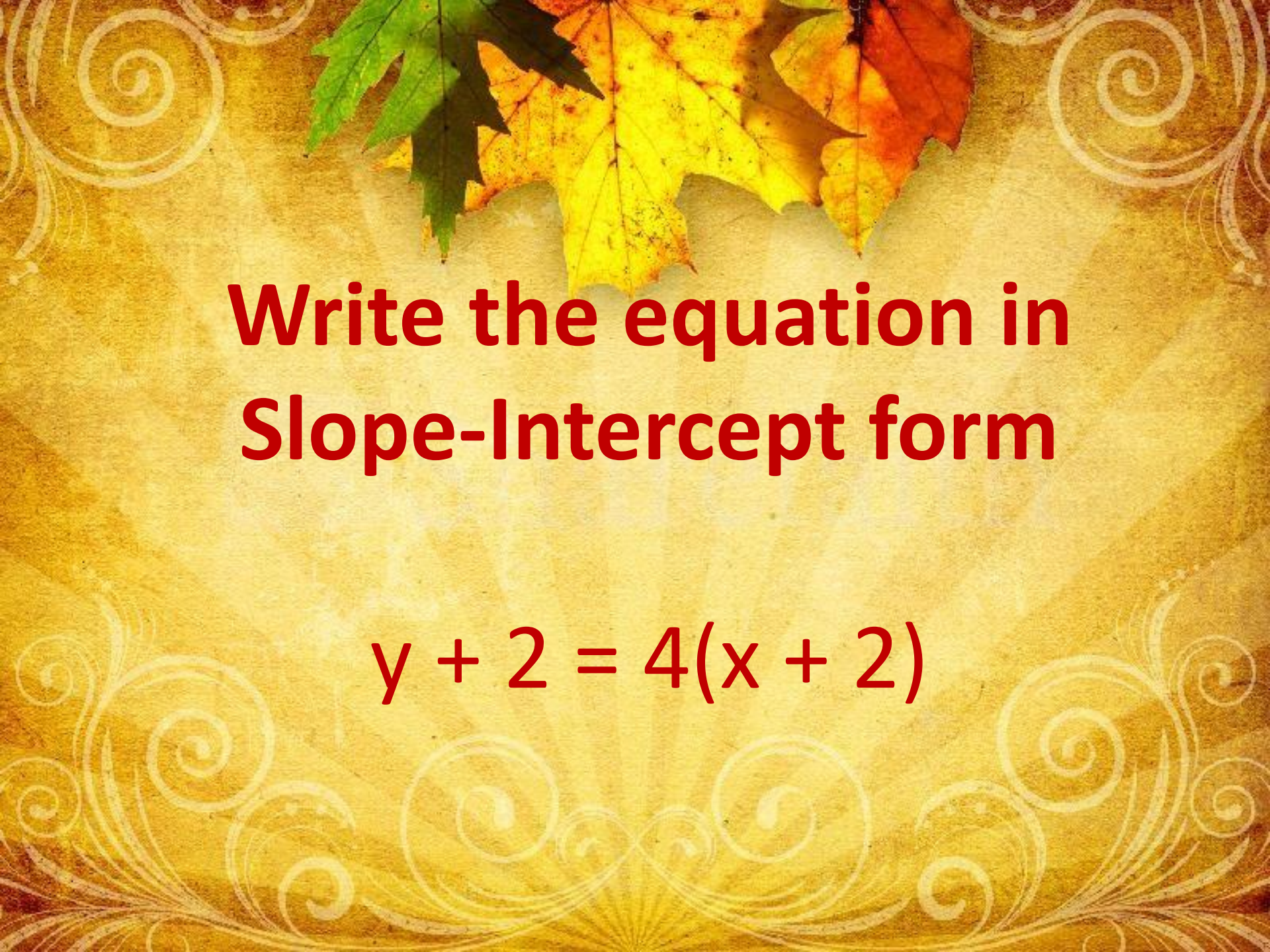
The background features a warm, golden-yellow textured surface. At the top center, there are several autumn leaves in shades of green, yellow, and orange. The corners and sides are decorated with intricate white swirl patterns.

Write the Standard form of an
equation of the line that passes
through each pair of points

$(6, 0), (0, 4)$

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$$2x + 3y = 12$$



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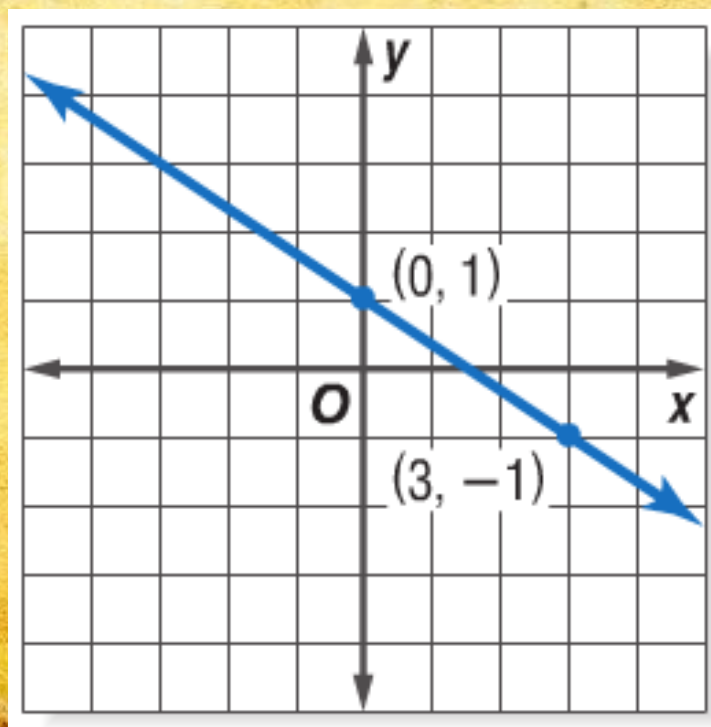
**Write the equation in
Slope-Intercept form**

$$y + 2 = 4(x + 2)$$

$$y = 4x + 6$$



Write an equation in slope-intercept form of the line shown.




$$y = -\frac{2}{3}x + 1$$





Write the equation of the line that
passes through the point with the
given slope

$$(-3, -5), m = -\frac{5}{3}$$

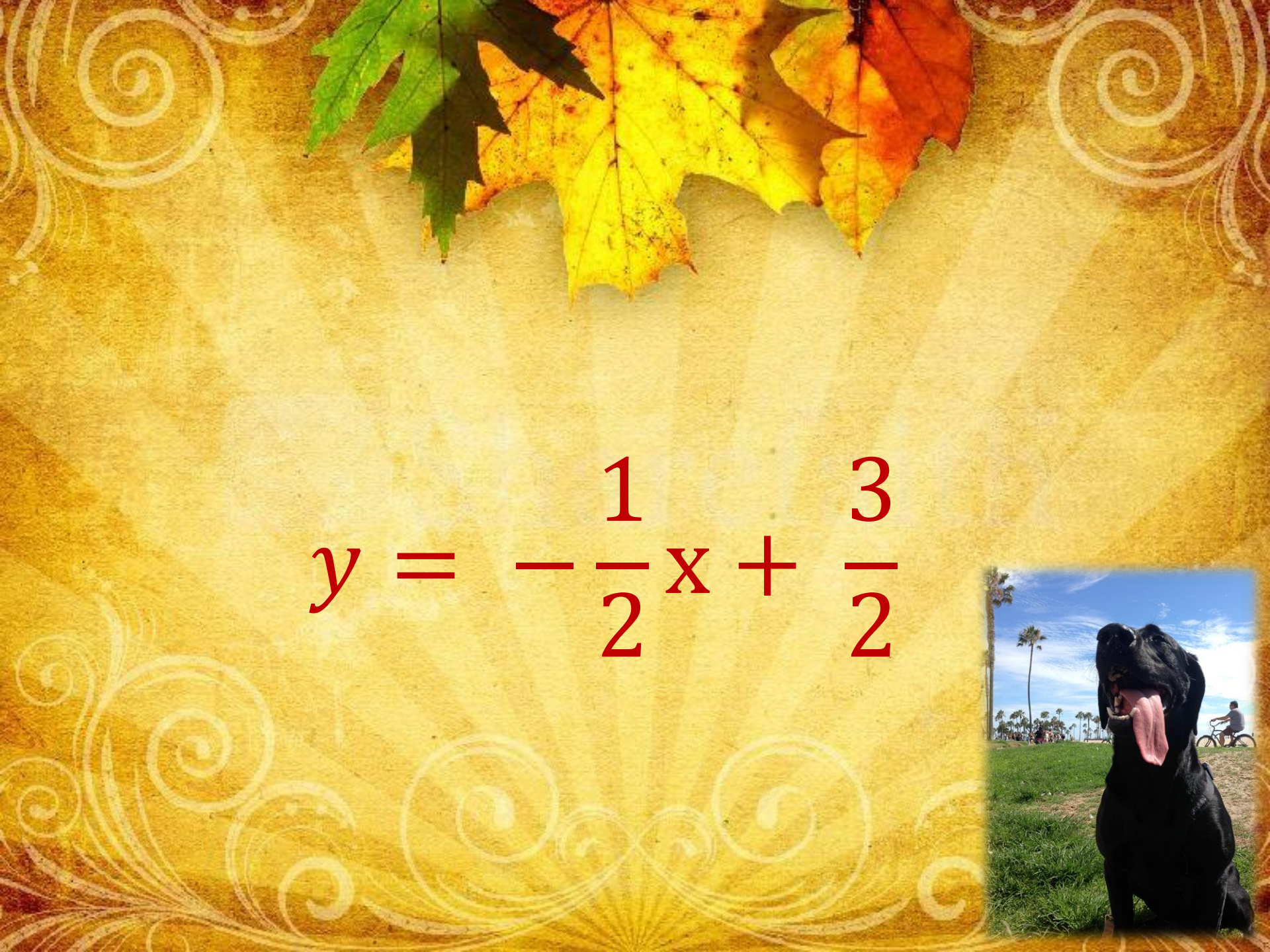
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$$y = -\frac{5}{3}x - 10$$



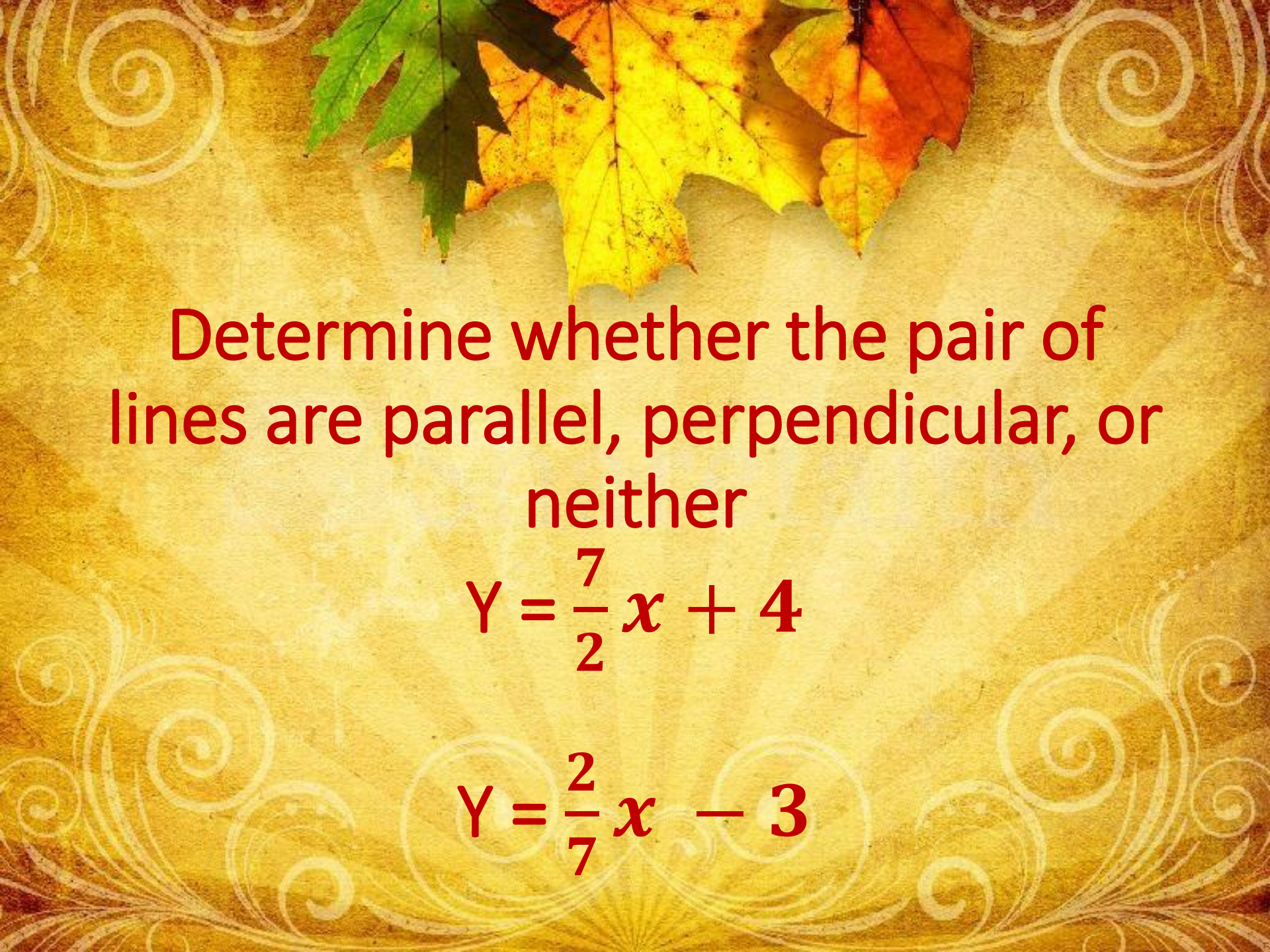


Write the slope-intercept form of an equation of the line that passes through each pair of points

$(5, -1), (-3, 3)$

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$$y = -\frac{1}{2}x + \frac{3}{2}$$



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Determine whether the pair of
lines are parallel, perpendicular, or
neither

$$Y = \frac{7}{2}x + 4$$

$$Y = \frac{2}{7}x - 3$$


Neither





Write the slope-intercept form of an equation for the line that passes through the given point and satisfies the condition

$(4, 6)$; parallel to $y = 3x - 2$


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$$y = 3x - 6$$





Write the slope-intercept form of an equation for the line that passes through the given point and satisfies the condition

$(2, -5)$; perpendicular to $5y = -x + 1$


The background of the slide is a warm, golden-yellow color with a textured, paper-like appearance. It is decorated with several white, stylized swirl patterns in the corners and along the bottom. At the top center, there are three autumn leaves: one green, one yellow, and one orange-red.
$$y = 5x - 15$$





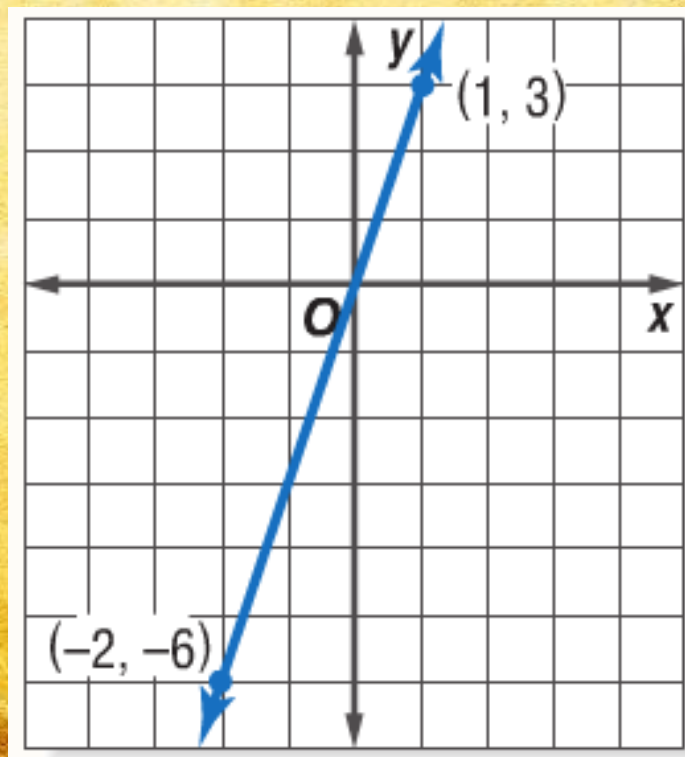
Write the slope-intercept form of an equation for the line that passes through the given point and satisfies the condition

$(3, 0)$; parallel to $3x + 9y = 1$

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$$y = -\frac{1}{3}x + 1$$



Find the slope of the line represented on the graph.



3



The background of the slide is a warm, golden-yellow color with a subtle, swirling pattern. In the upper center, there are several autumn leaves in shades of green, yellow, and orange. The text is written in a dark red, serif font.

Find the slope of the line
that passes through

$(-6, 4)$ and $(-6, -2)$

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undefined



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Find the slope of the line
that passes through

$(0, 5)$ and $(6, 2)$

The background of the slide is a warm, golden-yellow color with a textured, paper-like appearance. It is decorated with white, stylized swirls and floral patterns. In the top center, there are several autumn leaves in shades of green, yellow, and orange. In the bottom right corner, there is a small rectangular inset photograph of a black dog sitting on grass with its tongue out, under a blue sky with palm trees and a person on a bicycle in the background.
$$-\frac{1}{2}$$



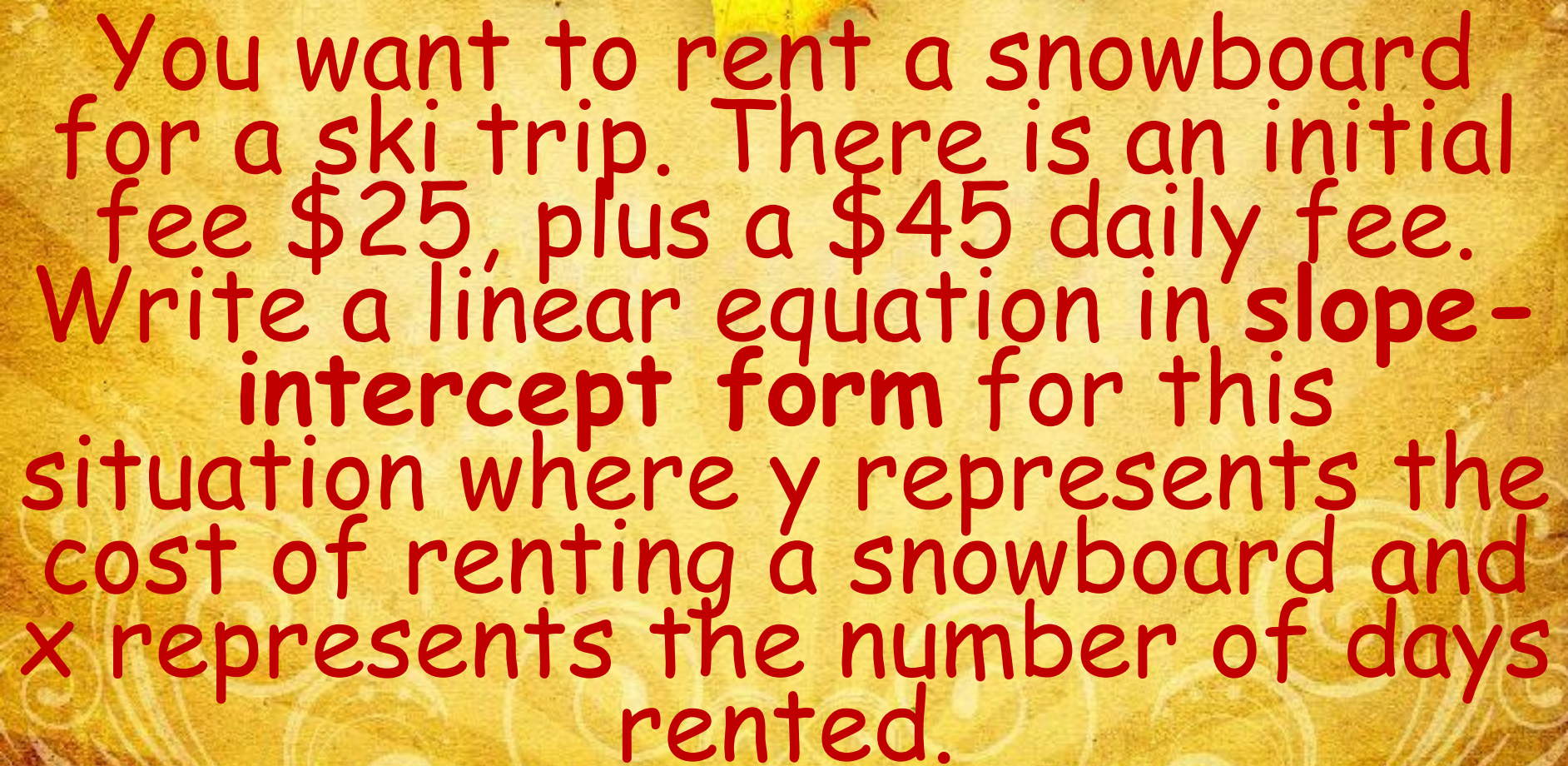
The background of the slide is a warm, golden-yellow color with a subtle, swirling pattern. At the top center, there are several autumn leaves in shades of green, yellow, and orange. The text is written in a dark red, serif font, centered on the slide.

Find the slope of the line
that passes through


$(-7, -12)$ and $(6, -12)$

Zero

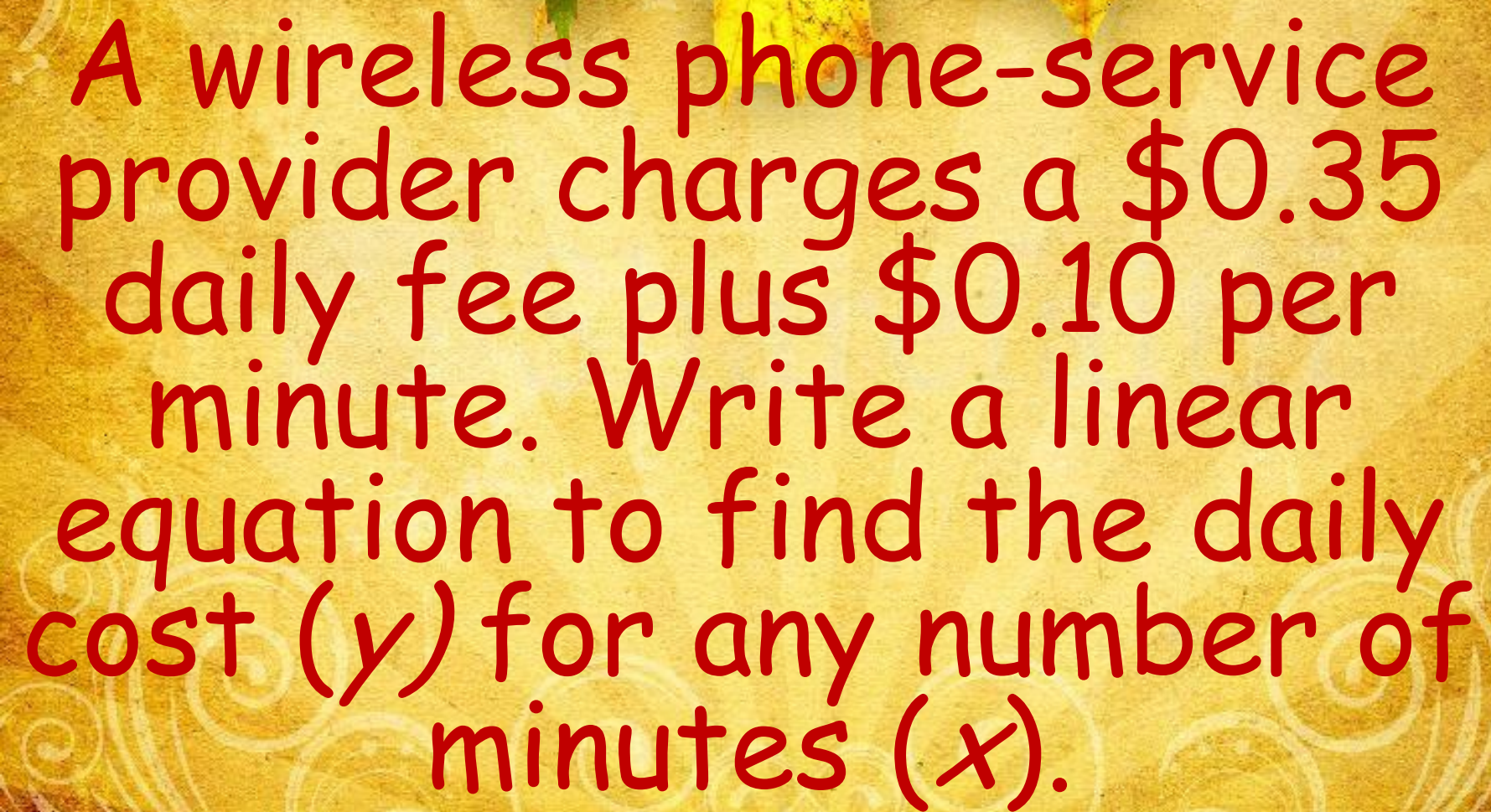


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You want to rent a snowboard for a ski trip. There is an initial fee \$25, plus a \$45 daily fee. Write a linear equation in slope-intercept form for this situation where y represents the cost of renting a snowboard and x represents the number of days rented.

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$$y = 45x + 25$$

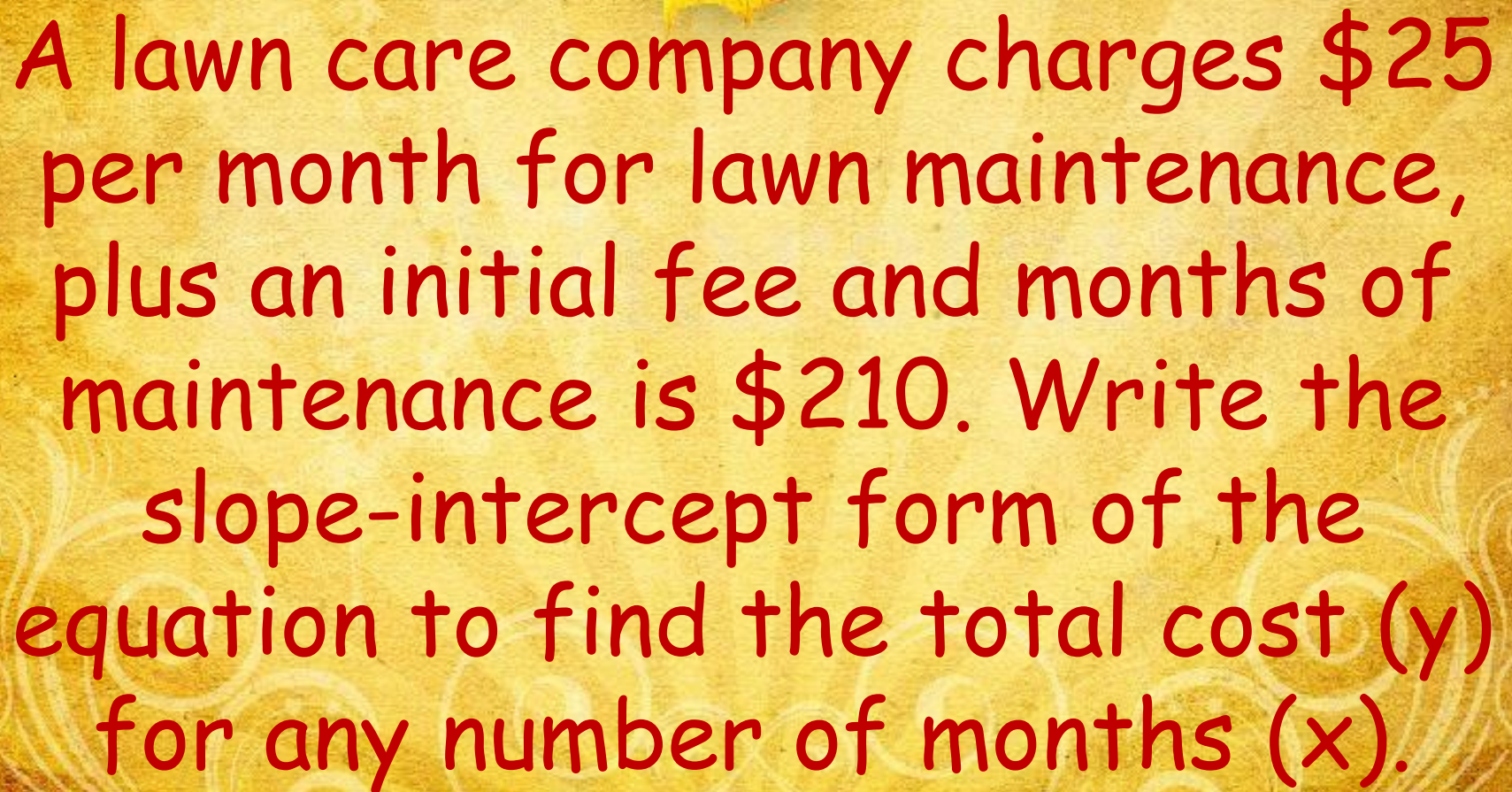


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A wireless phone-service provider charges a \$0.35 daily fee plus \$0.10 per minute. Write a linear equation to find the daily cost (y) for any number of minutes (x).

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$$y = 0.10x + 0.35$$

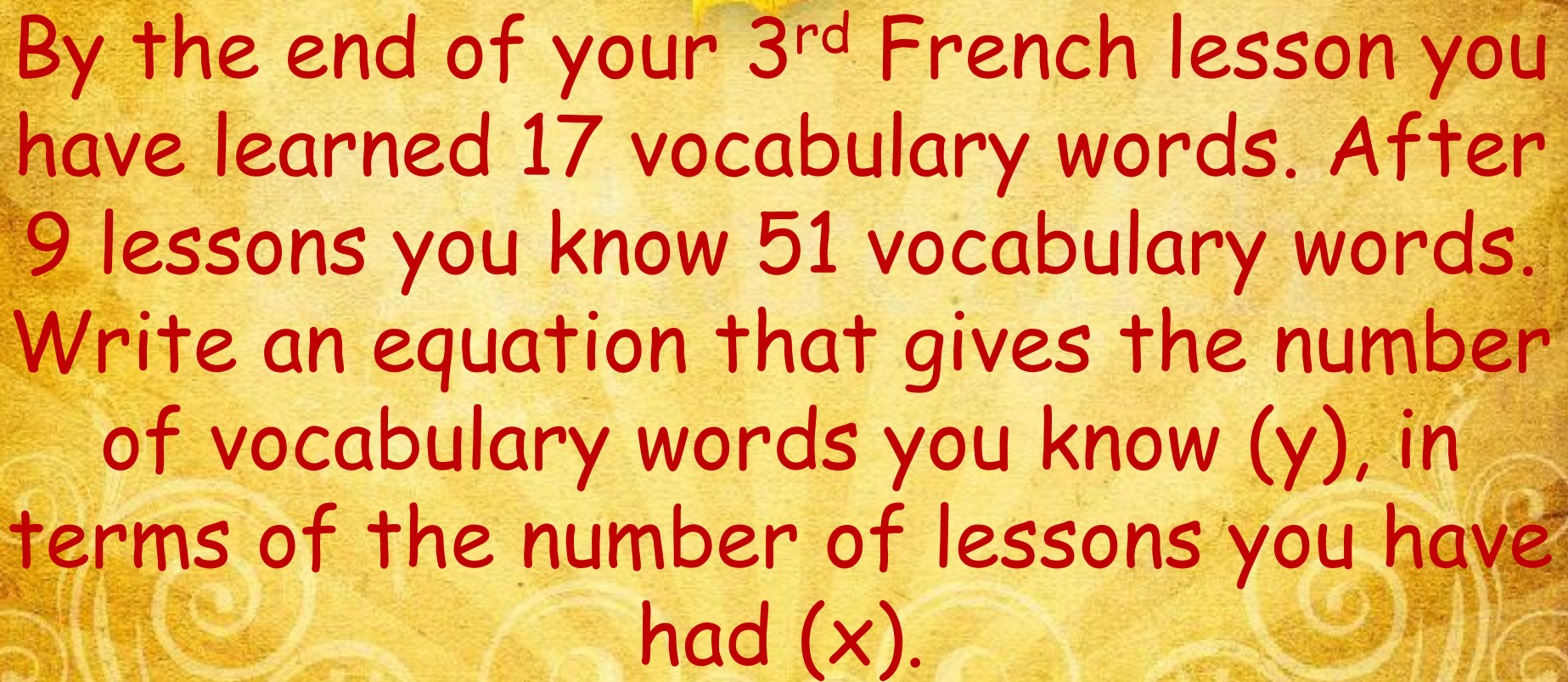


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A lawn care company charges \$25 per month for lawn maintenance, plus an initial fee and months of maintenance is \$210. Write the slope-intercept form of the equation to find the total cost (y) for any number of months (x).

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$$y = 25x + 10$$



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By the end of your 3rd French lesson you have learned 17 vocabulary words. After 9 lessons you know 51 vocabulary words. Write an equation that gives the number of vocabulary words you know (y), in terms of the number of lessons you have had (x).

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$$y = \frac{17}{3}x$$

