

Graphing Systems of Equations

Bell Work:

1. What type is this linear function? $y = \frac{4}{3}x - 6$
2. What is a point on the line with the same equation?
3. What is the slope of the line with the same equation?
4. What is the equation of the absolute value parent function?

Graphing Systems of Equations

1. $y = \frac{1}{3}x + 4$ and $y + 5 = -\frac{1}{2}(x - 8)$

Graph both lines and find the intersection.

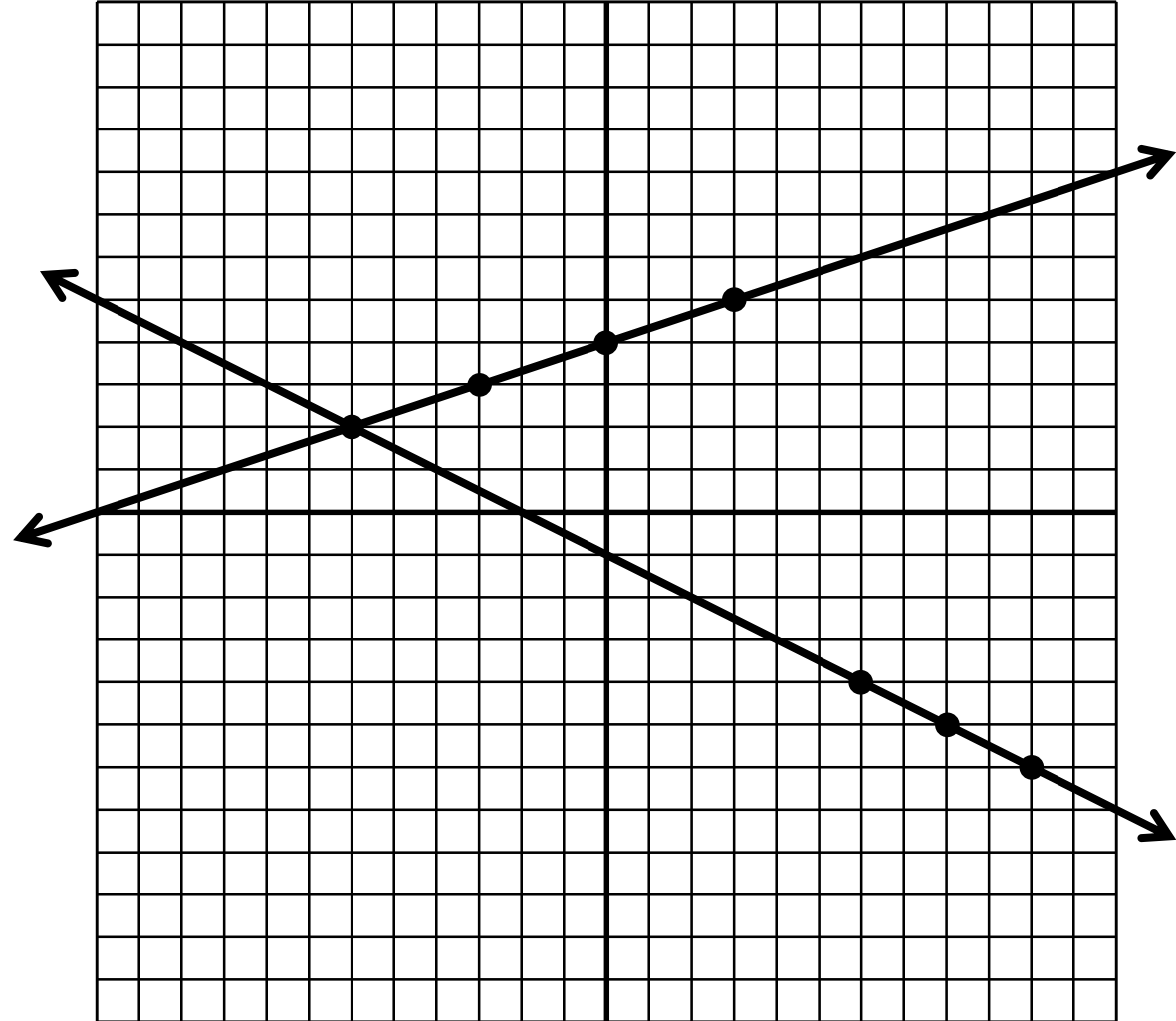
P: (0, 4)

P: (8, -5)

S: $\frac{1}{3}$

S: $-\frac{1}{2}$

(-6, 2)



Graphing Systems of Equations

2. $y + 4 = \frac{3}{4}(x + 5)$ and $2x + 3y = -15$

Graph both lines and find the intersection.

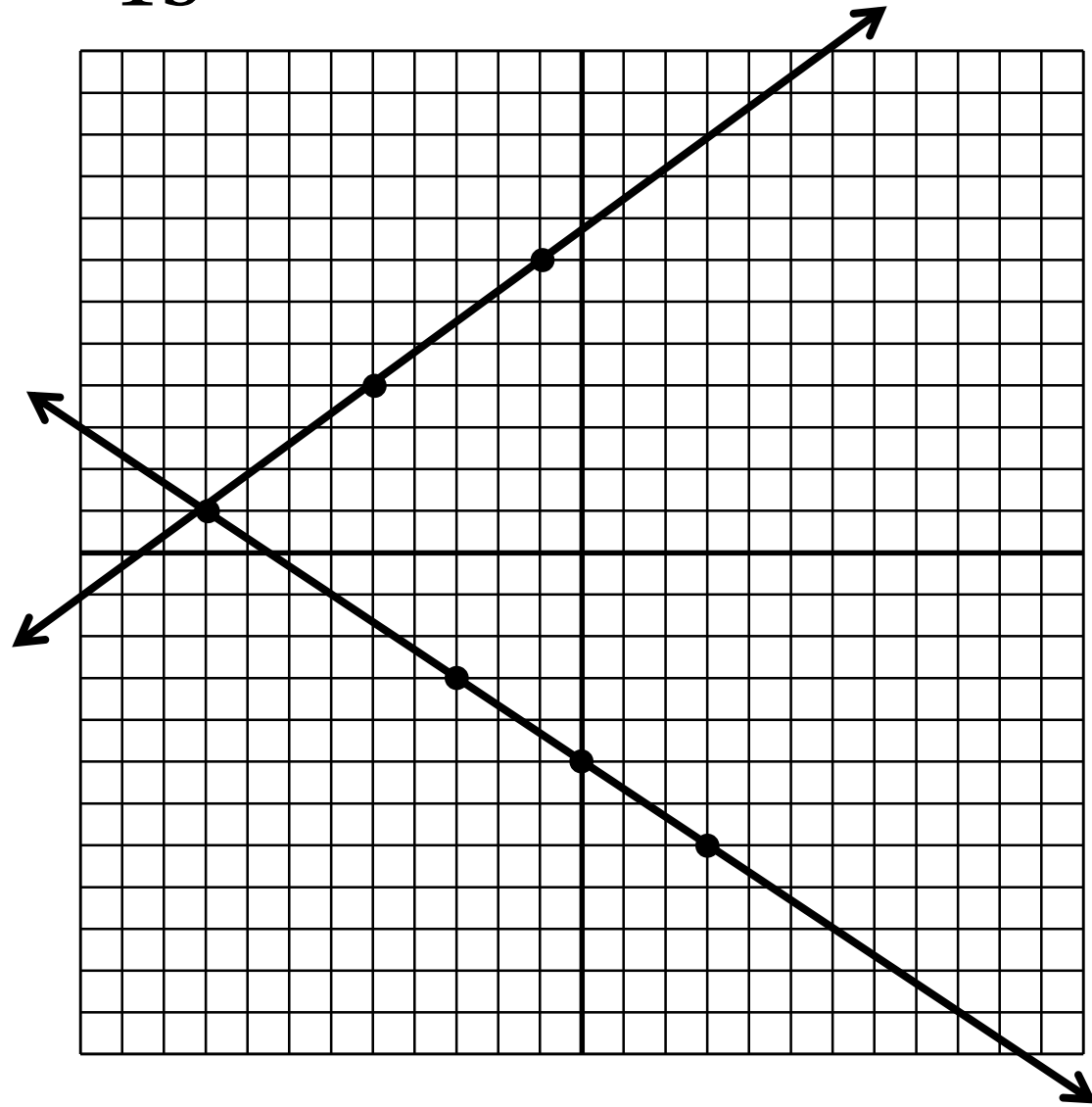
P: $(-5, -4)$

P: $(0, -5)$

S: $\frac{3}{4}$

S: $-\frac{2}{3}$

$(-9, 1)$



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3. $3x - 2y = 10$ and $y + 1 = \frac{1}{2}(x + 8)$

Graph both lines and find the intersection.

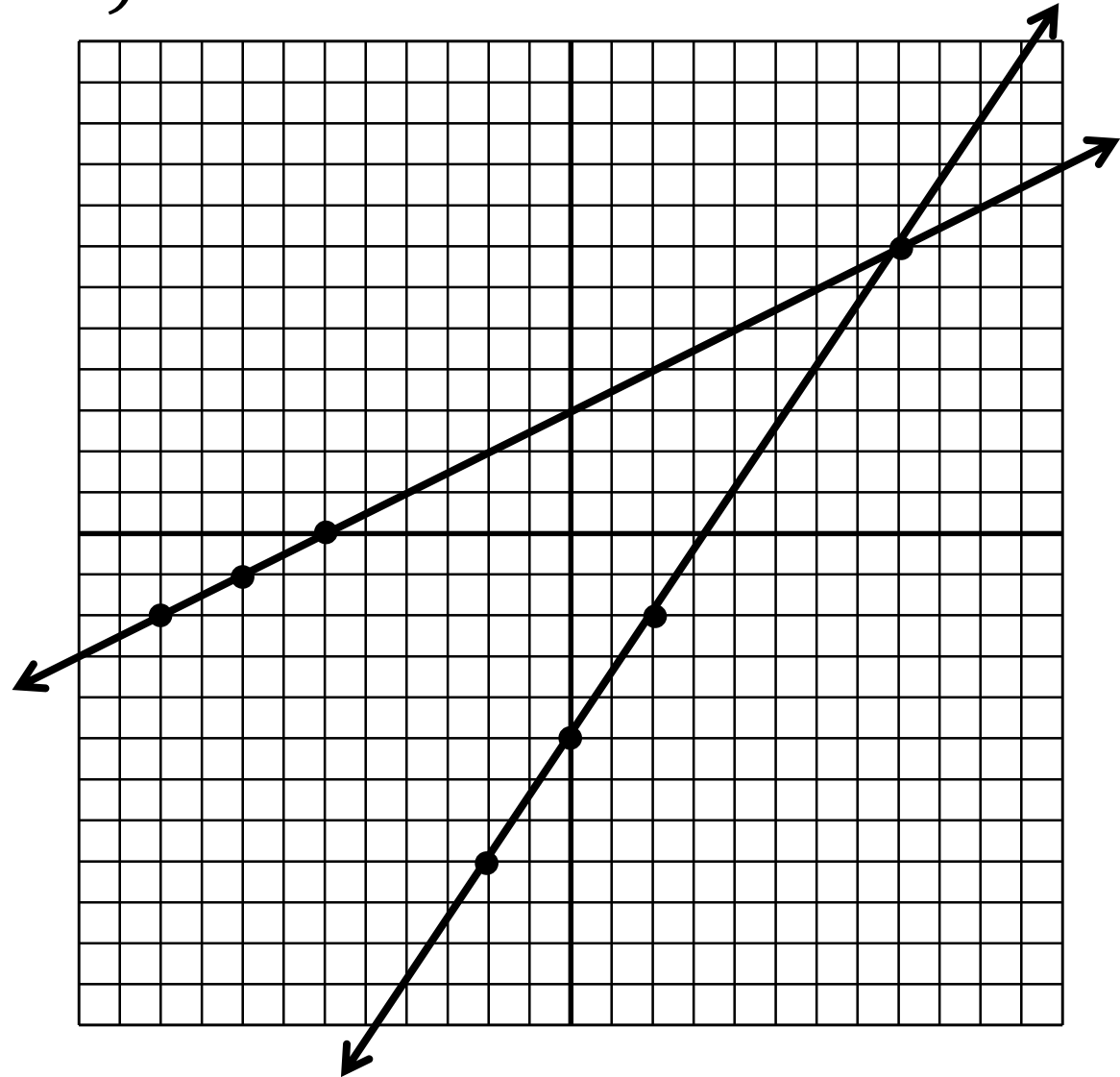
P: $(0, -5)$

P: $(-8, -1)$

S: $\frac{3}{2}$

S: $\frac{1}{2}$

$(8, 7)$



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Assignment:

FLEUNCY PRACTICE: Graphing Systems of Equations A Worksheet