Lines: Lesson 5
Standard Form: Notes

Name: _____

Slope-Intercept Form: $y = mx + b$

Point-Slope Form: $y - y_1 = m(x - x_1)$

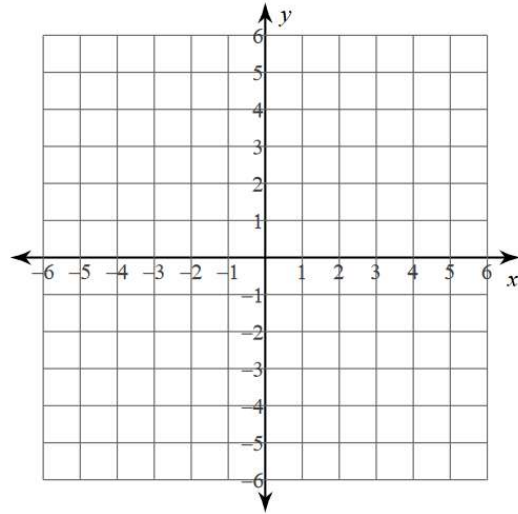**Standard Form:** _____

    A, B, and *C* are _____ .

2 methods to graph 4*x*-5*y*=20

Option 1:
    Turn into $y = mx + b$
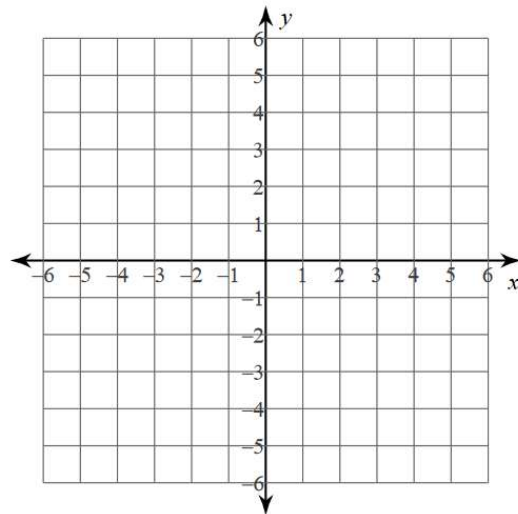
    $4x - 5y = 20$

Option 2:
    Find *x* and *y* intercepts.

    $4x - 5y = 20$

    (_____ , 0) (0, _____)

Turn equations into standard form:

1. Move the _____ and _____ terms to one side, the constant on the other.
2. If there are any fractions, _____ the entire equation by the least common _____ .

Turn this equation into standard form:

$$\frac{-3}{4}y = \frac{1}{2}x - 7$$

Summary of the three forms:

Slope-Intercept	Point-Slope	Standard
$y = mx + b$	$y - y_1 = m(x - x_1)$	$Ax + By = C$
$y = \frac{-5}{6}x + 2$	$y - 6 = \frac{-5}{6}(x + 3)$	$5x + 6y = 12$
Tells us: _____ _____	Tells us: _____ _____	Tells us: _____