

Algebra On Demand - Assessment 1

Skill 1 - Integer Operations

a. $-6+12=$

b. $(-5)(-12)=$

c. $8-(-7)=$

d. $36 \times (-9)=$

Skill 2 - Simplify

a. $6+4 \times 7-3=$

b. $3 \times (6-8)-3 \times 6-8=$

Skill 3 - Combine like terms

a. $6t-5-4t+9$

b. $6x^2-3x+5+4x^2+10x-6$

Skill 4 - Distribute

a. $3(m-7)$

b. $-4a(2a-3)$

Skill 5 - Solve

a. $y+8=4$

b. $3z=15$

c. $\frac{2}{3}x=18$

Skill 6 - Solve

a. $4b+17=33$

b. $-\frac{3}{4}s-8=7$

Skill 7 - Solve

a. $6n+4=4n+3$

b. $6(a+2)-2(a+1)=6$

Skill 8 - Plot and label the following points:

a.

b.

c.

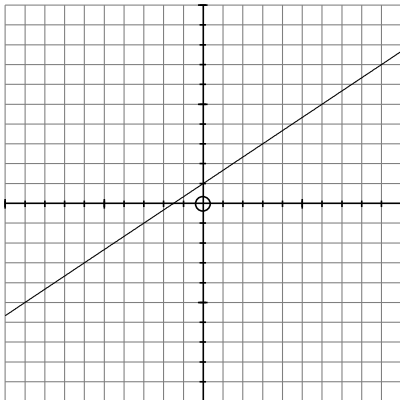
d.

Skill 9 - Graph the following lines:

a. $y=3x-4$

b. $y=-\frac{3}{5}x+1$

Skill 10 - Write the equation of the line:

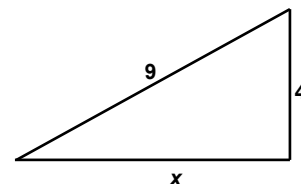
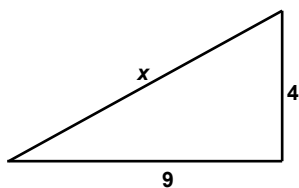


Skill 11 - Graph the following lines

a. $2x+4y=8$

b. $-3x+4y=-24$

Skill 12 - Pythagorean Theorem: solve for x :



Skill 13 - Pythagorean Theorem: solve for x :

Skill 14 - Identifying slopes:

$$m = -\frac{1}{4}$$

$$m = 2$$

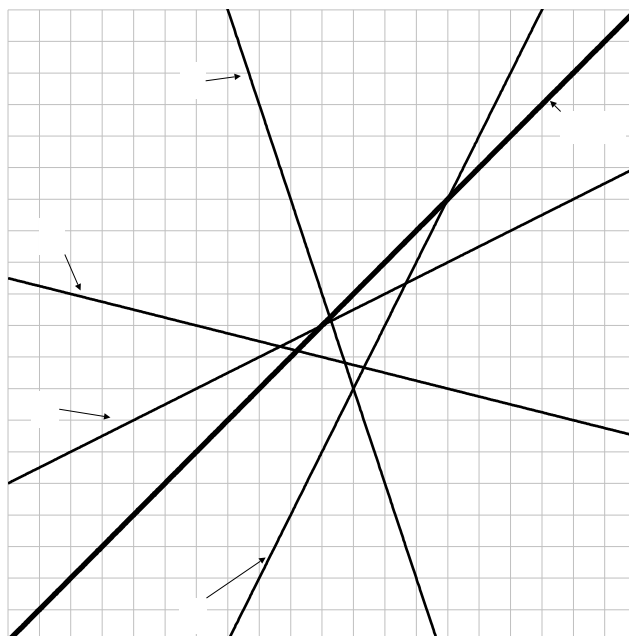
$$m = \frac{1}{2}$$

$$m = -3$$

Skill 15 - Give the slope and y-intercept each of the following

a. $y = \frac{3}{2}x + 12$

b. $4x + 3y = 24$



Skill 16 - Equation given two points

17 - Equation given the slope and a point

Skill 18 - Equation of Horizontal and Vertical Lines

a.

b.

Skill 19 - Slope of Horizontal and Vertical Lines

a. $x = 1$

b. $y = -2$

Skill 20 - Convert to Standard Form

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

Skill 21 - Factoring out a GCF

a. $3x - 6$

b. $2m^2 + 4m - 8$

Skill 22 - FOIL

a. $(x + 3)(x - 2)$

b. $(2x + 1)(3x + 2)$

Skill 23 - System of Equations

$$y = 3x - 2$$

$$y = -2x + 8$$

Skill 24 - Parallel and Perpendicular Lines

a. $3x - 2y = 4$

b. $3x - 2y = 4$

Skill 25 - Factoring Trinomials

a. $x^2 + 7x + 12$

b. $x^2 - 4x - 21$

of

Skill