

Algebra 3 Assignment # 2

Graph using the x and y intercepts:

(1) $3x - 6y + 24 = 0$

(2) $4x + 2y - 12 = 0$

(3) $-7x - 3y - 33 = 0$

Graph the points to satisfy the given domain:

(4) $y = 3x - 5 \quad 1 \leq x \leq 4$

Find the slope:

(5) $(6, 7), (106, -7)$

(6) $(2, -6), (13, 8)$

(7) $(1, 1), (6, -17)$

(8) Why is the line determined by $(6, -5)$ and $(8, -8)$ parallel to the line through $(-3, 12)$ and $(1, 6)$

(9) Verify the points $A(1, 2)$, $B(4, -1)$, $C(2, -2)$, and $D(-1, 1)$ are the vertices of a parallelogram.

Answers:

1. $(0, 4), (-8, 0)$

2. $(0, 6), (3, 0)$

3. $(0, -11), \left(-\frac{33}{7}, 0\right)$

4. See solved sheet

5. $-\frac{7}{25}$

6. $\frac{14}{11}$

7. $-\frac{18}{5}$

8. They have the same slope.

9. Both pairs of opposite sides are parallel.