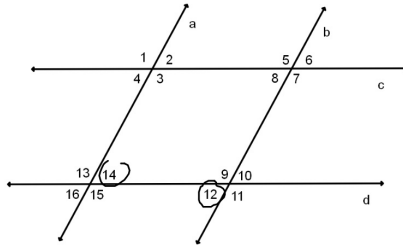


1. Given: $a \parallel b$ and $c \parallel d$

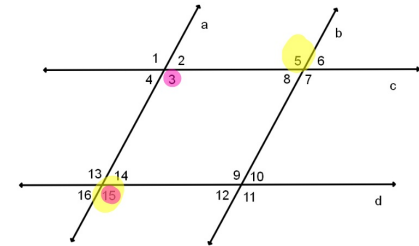
Prove: $\angle 12$ suppl to $\angle 3$



Statement	Reason
1. $a \parallel b$ and $c \parallel d$	1. Given
2. $\angle 12 \cong \angle 14$	2. Alt Int $\angle$ s
3. $\angle 14$ and $\angle 3$ suppl	3. SSI
4. $\angle 12$ suppl $\angle 3$	4. Subst.

2. Given: $a \parallel b$ and $\angle 5 \cong \angle 15$

Prove: $c \parallel d$



Statement	Reason
1. $a \parallel b$ and $\angle 5 \cong \angle 15$	1. Given
2. $\angle 5 \cong \angle 3$	2. Alt int $\angle$ s
3. $\angle 3 \cong \angle 15$	3. Subst
4. $c \parallel d$	4. b/c corr $\angle$ s $\cong$

3. Find the measure of one interior angle of a regular 36-gon

$$(36-2)180 = 6120^\circ$$

$$\div 36$$

$$170$$

Sum ext $\angle$ s = 360

$$\div 36$$

1 ext $\angle$ 10

$$1 \text{ int } \angle = 180 - 10 = 170^\circ$$

4. The measure of one interior angle of a regular polygon is 172.5° . Find the number of sides.

$$\frac{(n-2)180}{n} = 172.5$$

$$180n - 360 = 172.5n$$

$$-180n \quad -180n$$

$$n = 48$$

$$\frac{172.5^\circ}{7.5}$$

$$\frac{360}{7.5} = 48$$

Use a sheet of graph paper to graph each line on the x-y plane.

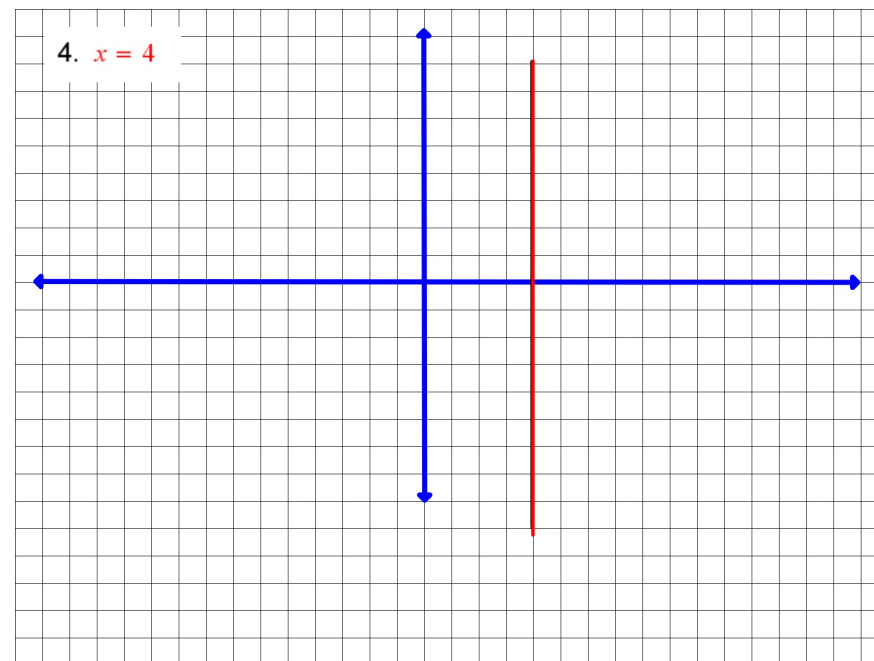
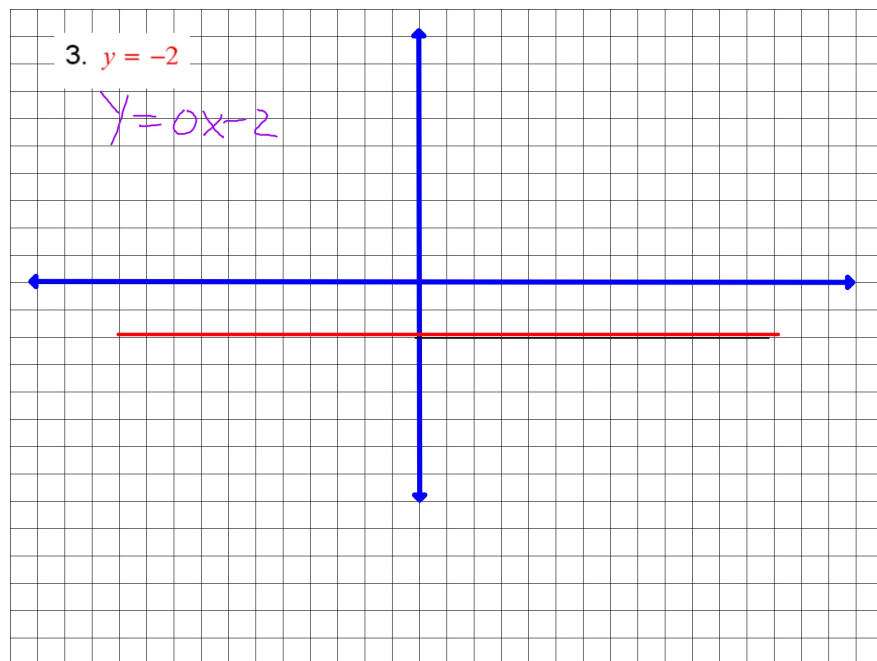
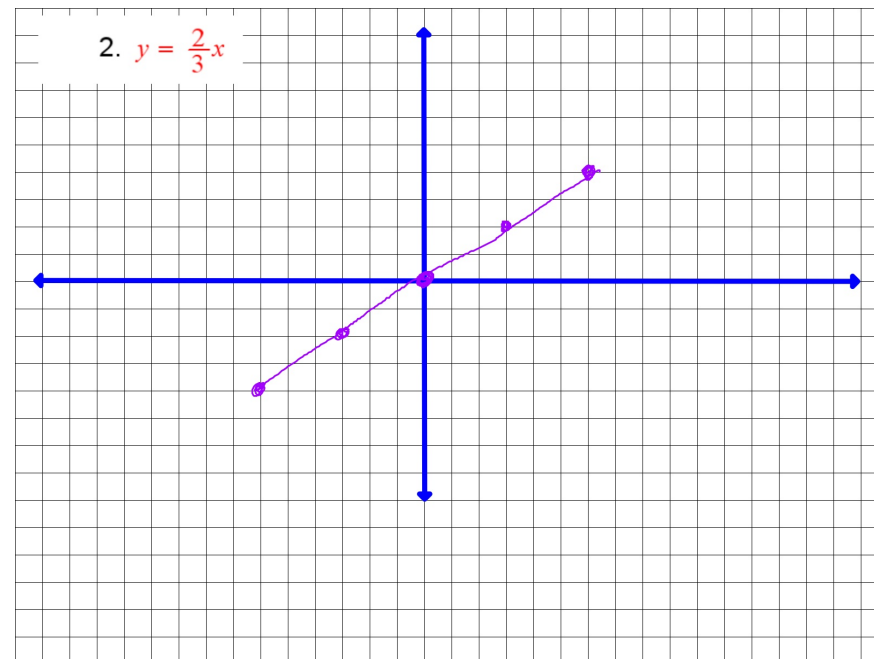
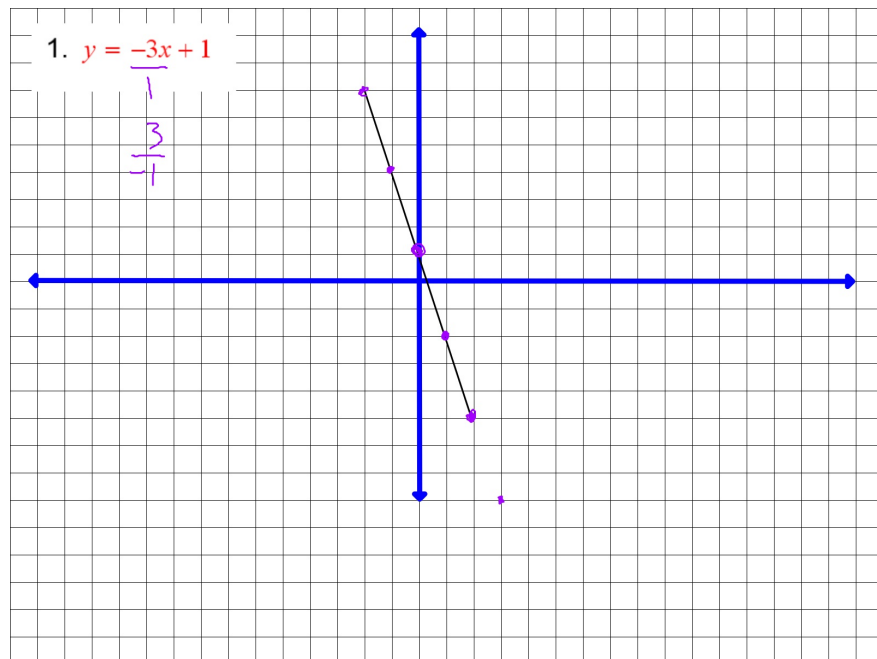
1. $y = -3x + 1$

2. $y = \frac{2}{3}x$

3. $y = -2$

4. $x = 4$

5. $3x + 2y = 12$



5. $3x + 2y = 12$

$-3x$ $-3x$

$$\frac{2y = 12 - 3x}{2}$$

$$y = 6 - \frac{3}{2}x$$

$x = \text{int } 4$
 $y = \text{int } 6$

