

## PAP Algebra 2

### Create Your Own , Part 2

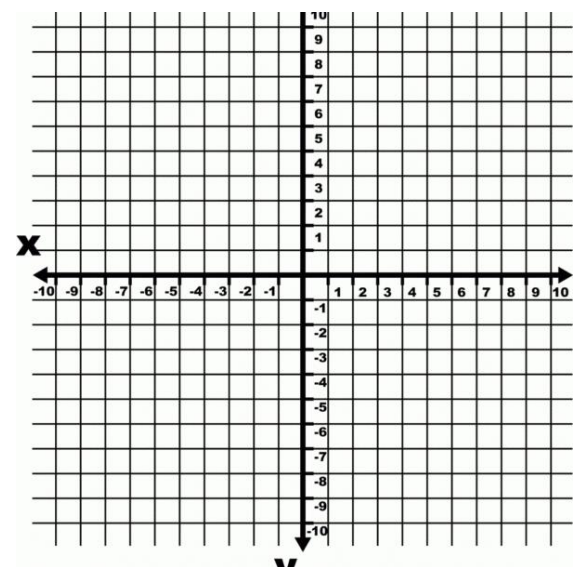
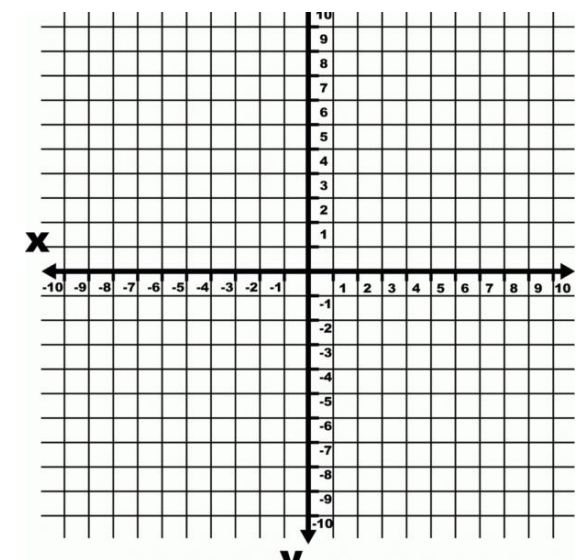
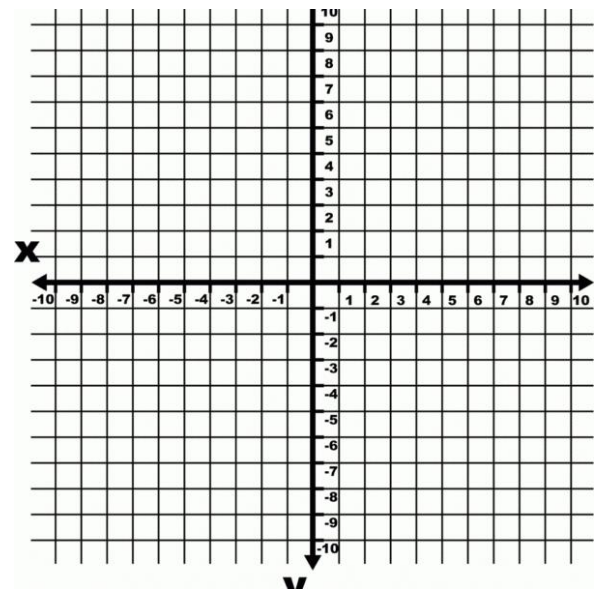
Create a graph that . . .

1. Decreases  $(-\infty, 1)$   
Increases  $(1, \infty)$   
Positive  $(-\infty, -6) \cup (4, \infty)$   
Negative  $(-6, 4)$

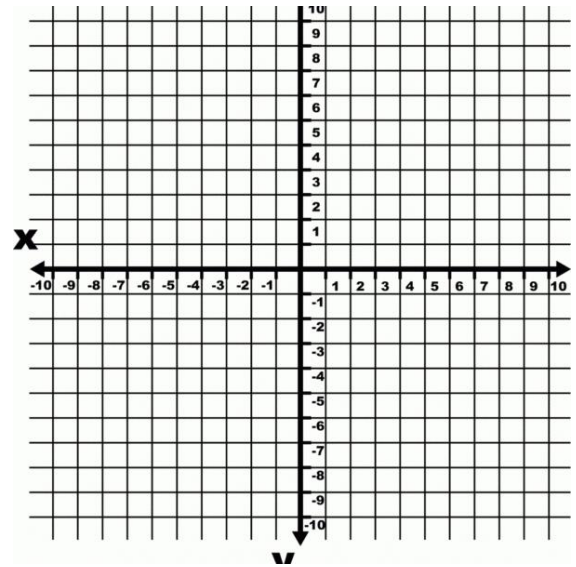
2. Increasing  $-\infty < x < \infty$   
Positive  $-2 < x < \infty$   
Negative  $-\infty < x < -2$

3. Decreases  $(2, \infty)$   
Increases  $(-\infty, 2)$   
Positive  $(-1, 5)$   
Negative  $(-\infty, -1) \cup (5, \infty)$

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4. Increases  $x < -3$  and  $x > 2$   
 Positive  $-5 < x < 0$  and  $x > 5$   
 Decreases  $-3 < x < 2$   
 Negative  $x < -5$  and  $0 < x < 5$



5. Decreases  $(-\infty, 1) \cup (4, 7)$   
 Increases  $(1, 4) \cup (7, \infty)$   
 Positive  $(-\infty, -4) \cup (10, \infty)$   
 Negative  $(-4, 10)$

