To pass this test you can have at most one error. Graphs must be neat and well labeled.

1. Solve the equation $A = P(1 - rt)$ for the variable t.

2. What is the slope and y-intercept of the line $5x - 2y = 9$?

3. Graph $y = -2x - 4$.

4. Graph $2x + \frac{1}{5}y - 2 = -12$.

5. What is the slope of the line that passes through the points $(-3, -17)$ and $(90, 10)$?

6. Determine the slope and y-intercept of the line that passes through the points $(1, 2)$ and $(-2, -2)$.

7. Write down the equation of a line that is parallel to the the line $5y + 4x = -1$.

8. Are the two lines $4y - 5x = 1$ and $\frac{1}{4}y + \frac{1}{5}x = -1$ parallel, perpendicular, or intersect but not at a right angle? You should not need a sketch to answer this question.

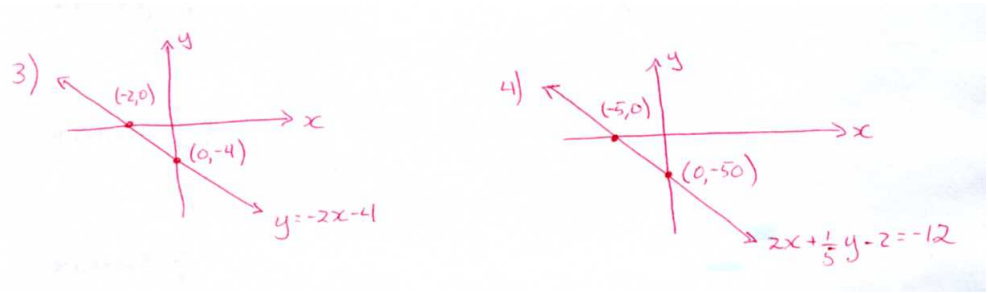
9. Sketch the region in the xy-plane that satisfies the inequality $4x - 5y \geq 3$.

10. Sketch the region in the xy-plane that satisfies the inequality $12x + 5y - 5 \geq 3$.

Solutions

1. $t = \dfrac{P - A}{Pr}$

2. slope is $\dfrac{5}{2}$ and y-intercept is $-\dfrac{9}{2}$



5. $\dfrac{9}{31}$

6. slope is $\dfrac{4}{3}$ and y-intercept is $\dfrac{2}{3}$

7. Answers vary. Slope of your line must be $-\dfrac{4}{5}$ for it to be correct.

8. perpendicular