

Algebra 2A
Practice Quiz on 2-4 & 6-6

Name: _____

Date: _____ Hr: _____

HOW ALL WORK

1. A line passes through $(-3, 7)$ with slope $\frac{2}{3}$.

a. What is the equation of the line in point-slope form?

a. _____

a. What is the equation of the line in slope-intercept form?

b. _____

2. A line passes through $(2, 7)$ and $(-4, 1)$.

a. What is the equation of the line in point-slope form?

a. _____

b. What is the equation of the line in slope-intercept form?

b. _____

3. What is the equation of the line $y = -\frac{4}{3}x + \frac{5}{6}$ in standard form?
Use integer coefficients.

3. _____

4. Use the equation $-2x + y = 6$,

a. Find the x intercept

a. _____

b. Find the y intercept

b. _____

c. Graph the line

c. _____

5. Rosa must read 20 pages of a book for English class. It will take Rosa about 50 minutes to complete her reading. If the number of pages (y) depends on the number of minutes (x), find the equation in slope intercept form.

5. _____

6. What is the equation, in slope-intercept form, of each line?

a. parallel to $y = 4x - 1$ through $(2, 7)$

a. _____

b. perpendicular to $y = -\frac{1}{3}x + 5$ with the same y-intercept as $6x - 2y = 30$.

b. _____

7. Let $f(x) = x + 2$ and $g(x) = \sqrt{x - 1}$

a. What is $f + g$?

a. _____

b. What is $f - g$?

b. _____

8. Let $f(x) = 4x + 8$ and $g(x) = 2x - 12$

a. What is $f \cdot g$?

a. _____

b. What is $\frac{f}{g}$?

b. _____

c. What is the domain restriction for $\frac{f}{g}$?

c. _____

9. Let $f(x) = x + 2$ and $g(x) = x^2$.

a. What is $(f \circ g)(2)$?

a. _____

b. What is $(g \circ f)(2)$?

b. _____

10. Let $f(x) = x - 3$ and $g(x) = x + 5$.

a. What is $f(g(x))$?

a. _____

b. What is $g(f(x))$?

b. _____

