Name _____   Date _____

Slopes of Parallel and Perpendicular Lines - Independent Practice Worksheet

Complete all the problems.

1. Line c has a slope of $\frac{-8}{6}$. Line d has a slope of $\frac{-8}{6}$.
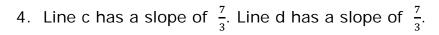
Are line c and line d parallel or perpendicular?

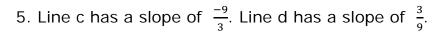2. Line c has a slope of $\frac{-10}{8}$. Line d has a slope of $\frac{8}{10}$.

Are line c and line d parallel or perpendicular?

3. Line c has a slope of $\frac{-12}{4}$. Line d has a slope of $\frac{4}{12}$.

Are line c and line d parallel or perpendicular?

4. Line c has a slope of $\frac{7}{3}$. Line d has a slope of $\frac{7}{3}$.

Are line c and line d parallel or perpendicular?

5. Line c has a slope of $\frac{-9}{3}$. Line d has a slope of $\frac{3}{9}$.

Are line c and line d parallel or perpendicular?

6. The equation for line j can be written as y = $\frac{7}{5}x$ - 8. Line k, which is parallel to line j, includes the point (3, 5). What is the equation of line k?

7. The equation for line j can be written as y = $\frac{6}{4}x$ - 14. Line k, which is parallel to line j, includes the point (2, 4). What is the equation of line k?

8. The equation for line j can be written as y = $\frac{9}{3}x$ - 12. Line k, which is perpendicular to line j, includes the point (-6, 8). What is the equation of line k?

9. The equation for line j can be written as y = $\frac{5}{2}x$ - 10. Line k, which is perpendicular to line j, includes the point (-7, 10). What is the equation of line k?

10. The equation for line j can be written as y = $\frac{4}{2}x$ - 6. Line k, which is perpendicular to line j, includes the point (-3, 9). What is the equation of line k?