**Parallel and Perpendicular Lines Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_ Hour \_\_\_**

**miniQuiz**

1) Calculate the equation of the line which passes through P(−5, 2) and R(1, 6)

 a) Plot the points. Is the slope positive or negative? \_\_\_\_\_\_\_\_\_\_\_\_\_

 b) Calculated Slope of PR =

 c) Plug coordinates and slope into slope-intercept form

 y = m(x) + b

 d) Solve for y-intercept (b). Does it look right?

 e) Write the equation in slope intercept form.

2) Draw a line which passes through (0, −3) and is exactly parallel to line PR.

3) Line d has the equation $y=\frac{3}{4}x-7$.

Line k is parallel to line d. Line w is perpendicular to line d.

a) What is the slope of line k? \_\_\_\_\_\_\_\_\_\_\_\_

b) What is the slope of line w? \_\_\_\_\_\_\_\_\_\_\_

4) Plot points A( −5,−4), B (−1, 5), and C (6, 2).

Is ABC a right angle? Explain why or why not, using the slopes.