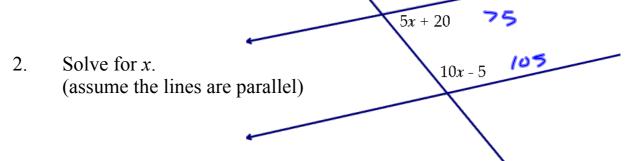
Warm Up

1. What kind of angles are labelled in the diagram?



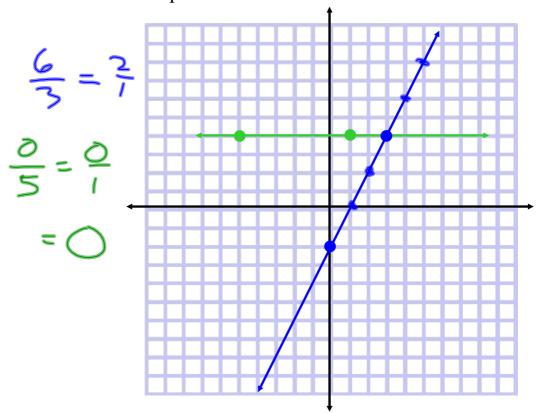
3. Find the slope of the line through (2, 5) and (6, 3).

3-4 Slopes of Lines

Slope of parallel lines <-- equal

Slope of perpendicular lines are opposite

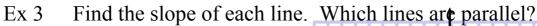
Ex 1 Find the slope of the two lines.

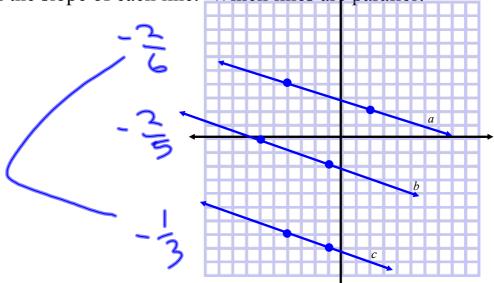


Ex. 2 Find the slope of the line through the following points.

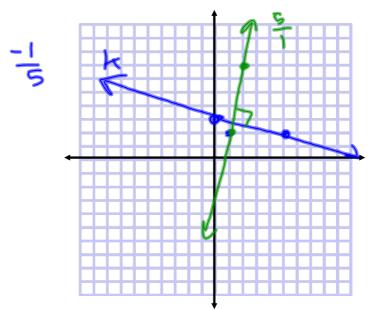
a.
$$(2,7)$$
 $(5,1)$ $-\frac{6}{3}$ = -2

3-4 Notes.notebook October 18, 2012

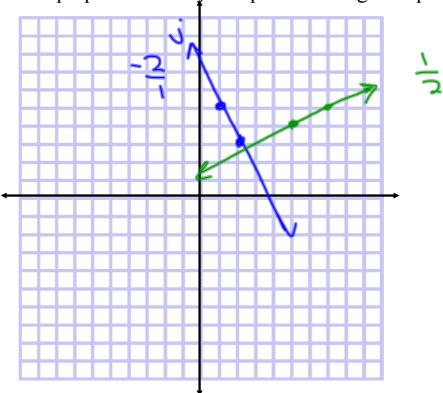




Ex 4 Line k passes through (0, 3) and (5, 2). Graph the line perpendicular to k that passes through the point (1, 2).



Ex 5 Line *j* passes through (1, 5) and (2, 3). Graph the line perpendicular to *j* that passes through the point (5, 4).



Ex 6 Line m passes through (-3, 1) and (2, 5). Graph the line parallel to m that passes through the point (0, -4).

Same
Slope
y=nx+5
y=
$$\frac{4}{5}$$
 x - 4

