

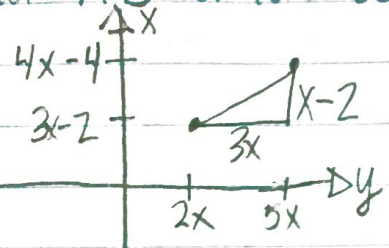
9-22-16 - know what words mean for test next Friday!

* How do you move from 1st to second

Find AB and a \perp slope for A(2x, 3x-2), B(5x, 4x-1)

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{4x-1 - (3x-2)}{5x - 2x} = \frac{x+1}{3x}$
 $\perp m = -\frac{3x}{x+1}$

$(3x)^2 + (x-2)^2 = c^2$
 $9x^2 + y^2 - 4x + 4 = c^2$
 $\sqrt{10x^2 - 4x + 4} = c^2$
 $\sqrt{10x^2 - 4x + 4} = c$



Factorize multiply

add $x^2 - 18x + 56 = 0$ * must be set equal to 0 *
 $(x-14)(x-4) = 0$ Factors of 56 - same signs

$x-14=0$	$x-4=0$
+14 +14	+4 = +4
$x=14$	$x=4$

$y = 56/x \rightarrow$ table (calc)

x	y
1	56 = 56
2	28 = 30
-4	14 = 78
7	8 =

add to -18

$x^2 - 28x + 196 = 0$
 $(x-14)(x-14) = 0$
 $x-14=0$
 +14 +14
 $x=14$

$2x^2 + 40x - 88 = 0$
 $2(x^2 + 20x - 44) = 0$
 $2(x+22)(x-2) = 0$

$x+22=0$	$x-2=0$
$x=-22$	$x=2$

$6x^2 - 7x - 3 = 0$
 $x^2 - 7x - 18 = 0$

$3x+1=0$
 $3x=-1$
 $x=-\frac{1}{3}$

$2x-3=0$
 $\frac{1}{2}x=3$
 $x=6$

$(x+2)(x-9) = 0$ or $(x+\frac{1}{3})(x-\frac{9}{2}) = 0$

$(6x+2)(6x-9) = 0$	$(x+\frac{1}{3})(x-\frac{9}{2}) = 0$
$\frac{2}{2} \quad \frac{3}{3}$	$\frac{6}{6} \quad \frac{6}{6}$
$(3x+1)(2x-3) = 0$	$(3x+1)(2x-3) = 0$