SMART START

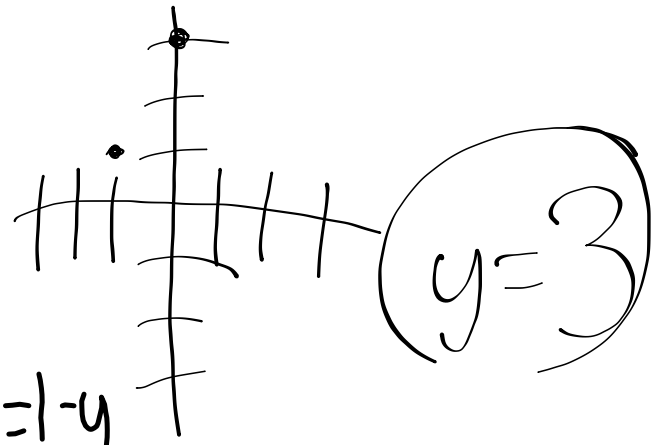
Find the slope of the line through each pair of points
(6,-20),(19,19)

$\frac{39}{13} = 3$

Find the value of x or y so that the line through the points has the given slope
(0, y) and (-1, 1); slope: 2

$x_1 y_1$ $x_2 y_2$

$y = 3$



$\frac{1-y}{-1-0} = \frac{2}{1}$

$-2-0=1-y$

$-2=1-y$

$-1 \quad -1$

$\frac{-3=-y}{-1 \quad -1}$

$y=3$

$2^2+3^2=c^2$

$4+9=c^2$

$\sqrt{13}=\sqrt{c^2}$

$\sqrt{13}$

$4^2+6^2=c^2$

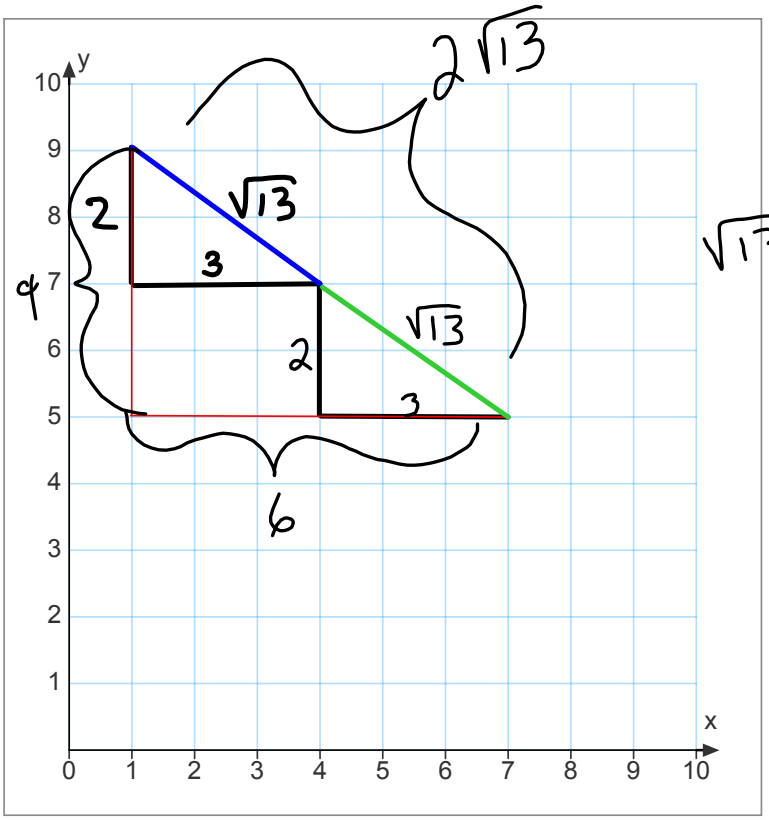
$16+36=c^2$

$\sqrt{52}=\sqrt{c^2}$

$\sqrt{52}=c$

$2\sqrt{13}=c$

$2\sqrt{13}$



$\sqrt{13}+\sqrt{13}=2\sqrt{13}$

$5x + 7x = 12x$

$5\sqrt{3} + 7\sqrt{3} = 12\sqrt{3}$

1) $4\sqrt{12} - 5\sqrt{3} + 3\sqrt{2}$

$4 \cdot 2\sqrt{3} - 5\sqrt{3} + 3\sqrt{2}$

$8\sqrt{3} - 5\sqrt{3} + 3\sqrt{2}$

$3\sqrt{3} + 3\sqrt{2}$

2) $6\sqrt{27} + 8\sqrt{12} + 2\sqrt{75}$

$6\sqrt{3 \cdot 3 \cdot 3} + 8\sqrt{2 \cdot 2 \cdot 3} + 2\sqrt{5 \cdot 5 \cdot 3}$

$18\sqrt{3} + \{6\sqrt{3} + 10\sqrt{3}$

$44\sqrt{3}$

$3x(2x-7)$

$6x^2-21x$

$(x+3)(2x-1)$

$2x^2-1x+6x-3$

$2x^2+5x-3$

$3\sqrt{3}(2\sqrt{3}-7)$

$6\sqrt{9}-21\sqrt{3}$

$6\cdot 3-21\sqrt{3}$

$18-21\sqrt{3}$

$(\sqrt{10}+3)(2\sqrt{10}-1)$

$2\sqrt{100}-\sqrt{10}+6\sqrt{10}-3$

$2\cdot 10+5\sqrt{10}-3$

$20+5\sqrt{10}-3$

$17+5\sqrt{10}$

3) $\left(4\sqrt{5}-3\sqrt{10}\right)\left(2\sqrt{5}+3\sqrt{6}\right)$

$4\sqrt{5}$ $-3\sqrt{10}$

$2\sqrt{5}$	$8\sqrt{25}$	$6\sqrt{50}$
$3\sqrt{6}$	$12\sqrt{30}$	$-9\sqrt{60}$

$40+12\sqrt{30}-6\sqrt{50}-9\sqrt{60}$

$40+12\sqrt{30}-30\sqrt{2}-18\sqrt{15}$

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