

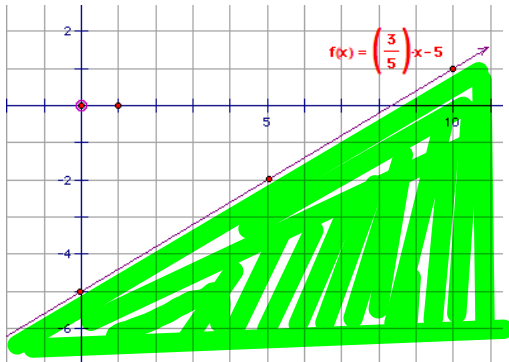
Answers:

Page 1)

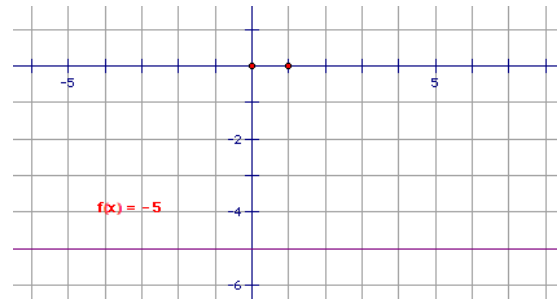
19) <i>No solution</i>	20) $x = -5$
12) $p = \frac{3}{2}$	21) $n = -1$
2) $r \geq 5$	16) $-2 \leq p$
5) $-6 \leq p < 2$	8) $-6 < x < 1$

Page 2)

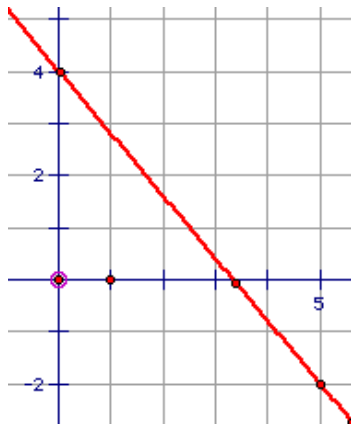
2)



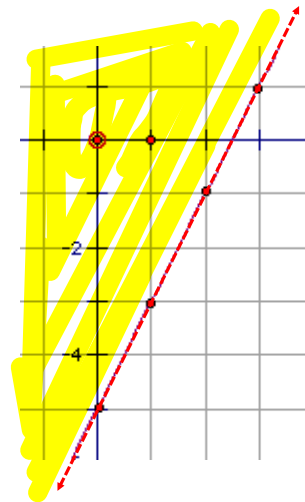
3)



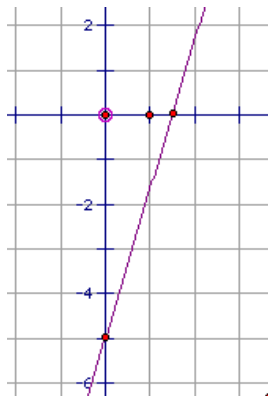
4)



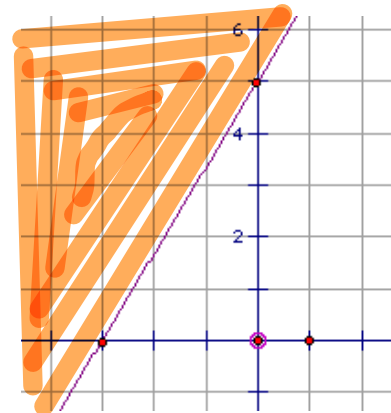
5)



8)



10)



Page 3)

9) $y - 2 = 7(x - 1)$	12) $y - 5 = \frac{5}{3}(x - 3)$
17) $y - 2 = -\frac{3}{4}(x - 4)$	22) $y + 4 = -(x - 4)$
1) $y + 16 = -\frac{1}{26}(x - 19)$ or $y + 15 = -\frac{1}{26}(x + 7)$	2) $y + 19 = -4(x - 1)$ or $y + 7 = -4(x + 2)$

P 4)

$m = -\frac{5}{2}$	$m = -\frac{4}{5}$
(1, 4)	(6, -6)
(-2, -4)	(2, 1)

P 5)

- 1) Kristen bought 5 plain shirts and 2 fancy shirts.
- 2) There are 7 pigs and 6 chickens in the barn
- 3) The price of a child ticket is \$14 and the price of a senior ticket is \$8

P 6)

1) $f(x) = x^2 + 5x - 24$ a) $f(0) = -24$ b) $f(-1) = -28$ c) $f(3) = 0$	2) $f(x) = 3x^2 - 4$ a) $f(0) = -4$ b) $f(-1) = -1$ c) $f(1) = -1$ d) $f(.5) = -3.25$	5) $f(x) = x - 3$ and $g(x) = x^2 + 2$ a) $f(g(0)) = -1$ b) $g(f(0)) = 11$ c) $g(0)f(0) = -6$ d) No! The solutions are not the same because the equations are not asking you to do the same operations!
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P 7)

10) $24m^2 + 14m - 7$	5) $x^2 - 8x + 16$
22) $2n^3 + 8n^2 - 32n + 16$	10) $64a^4 - 16$
7) $x^2 - 25$	18) $16a^2 + 56a + 49$
1) $-3p^3 + 7p^2 - 3$	28) $66k + 42$

P 8)

1) $(3p - 5)(p + 1)$	15) $(6x + 1)(x + 6)$
7) $(m + 6)(m - 4)$	26) $6(v + 10)(v + 1)$
3) $(2x^2 - 5)(6x + 1)$	2) $(3p^2 + 7)(4p - 7)$
1) $(4n + 3)(4n - 3)$	2) $(2m - 5)(2m + 5)$

P 10)

2) $\frac{2}{x^8}$	7) $\frac{x^4y^3}{4}$
21) $\frac{m^3}{16p^2q^2}$	22) $\frac{h^3g^4k^2}{2}$
15) $81k^2$	26) $\frac{2x^2}{3yz^7}$