Algebra 1 - Mr. C. - All work on looseleaf. Name_____

Practice for Q3Exam1 - Also, use prior quizzes/classwk

Date_____ Period____

Graph each equation.

1) $y = |x| - 2$

2) $y = |x| - 3$

3) $y = |x| + 1$

4) $y = |x| + 3$

5) $y = -|x| + 2$

6) $y = -|x| - 1$

7) $y = -|x| - 3$

8) $y = -|x| - 4$

9) $y = -3|x + 1|$

10) $y = -3|x - 3| + 2$

11) $y = -2|x| - 1$

12) $y = -3|x| + 4$

Write the slope-intercept form of the equation of the line described.

13) through: $(2, -5)$, parallel to $y = -4x - 3$

14) through: $(2, -5)$, parallel to $x = 0$

15) through: $(-3, 4)$, parallel to $x = 0$

16) through: $(-4, -1)$, parallel to $y = \frac{5}{4}x - 4$

17) through: $(4, -4)$, parallel to $y = -\frac{9}{4}x$

18) through: $(2, 2)$, parallel to $y = -\frac{3}{2}x - 3$

19) through: $(-4, 4)$, perp. to $y = \frac{2}{3}x - 5$

20) through: $(-5, 5)$, perp. to $y = \frac{5}{9}x - 4$

21) through: $(-5, 2)$, perp. to $y = \frac{1}{2}x - 1$

22) through: $(1, -4)$, perp. to $y = \frac{1}{2}x + 4$

23) through: $(3, 1)$, perp. to $y = -\frac{3}{4}x - 4$

24) through: $(4, 0)$, perp. to $y = -4x - 5$

Simplify. Your answer should contain only positive exponents.

25) $\dfrac{n^2}{-n^{-2} \cdot -2n^{-3} \cdot n^{-4}}$

26) $\dfrac{(-2n^4)^{-3}}{-2n^3 \cdot (2n^{-1})^0}$

27) $\dfrac{(2v^3)^4}{v^2v^2}$

28) $\dfrac{(2n^{-3})^2 \cdot 2n^3 \cdot 2n^{-2}}{2n^4}$

29) $\dfrac{(-2b)^4}{2b^{-4} \cdot b^2}$

30) $-\dfrac{2k}{(k^2 \cdot -2k^3 \cdot -k^2)^4}$

31) $\dfrac{(-2x)^{-4} \cdot -2x^4}{-2x}$

32) $\dfrac{2r \cdot -r^{-1} \cdot -2r^0}{(-r^2)^3}$

33) $\dfrac{(2x^3)^{-1}}{-x \cdot -x^{-2}}$

34) $-\dfrac{m^{-2}}{(2m^{-4})^2 \cdot -2m^{-3}}$

35) $\dfrac{(k^3)^2 \cdot -k^4}{(-k^{-3})^0}$

36) $\dfrac{2x^{-4}}{2x^4 \cdot (2x^0)^2}$

37) $\dfrac{(-2x^3)^{-3} \cdot -2x^2}{-x^2}$

38) $\dfrac{(n^3)^4}{-n^2 \cdot n^2}$

39) $\left(\dfrac{r^0r^{-1}}{(r^3)^3}\right)^3$

40) $\dfrac{(2x^4 \cdot -2x^{-2})^{-4}}{(x^2)^{-1}}$

41) $-\dfrac{n^0}{(2n^4)^0 \cdot n^3}$

42) $\dfrac{x^0 \cdot -x^3}{(-x^{-3})^{-4}}$

43) $-\dfrac{2b^{-2}}{(b^0)^4 \cdot -2b^2}$

44) $\left(\dfrac{2m^3}{-m^3 \cdot (-2m^{-3})^3}\right)^0$

45) $\dfrac{2a^0 \cdot -a}{(-a^4)^3}$

46) $\dfrac{2x^2}{(-2x^{-2})^3 \cdot -2x^{-1}}$

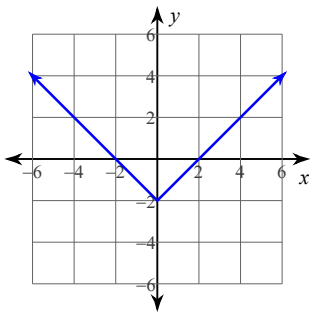
47) $\dfrac{(p^3)^4}{-2p^4 \cdot -p^4}$

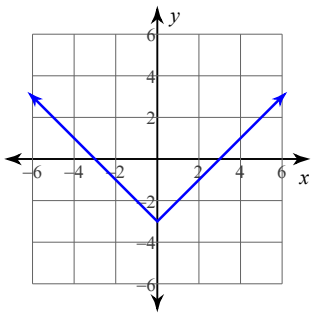
48) $\dfrac{2n^{-4} \cdot 2n^2}{(n^0)^{-4}}$

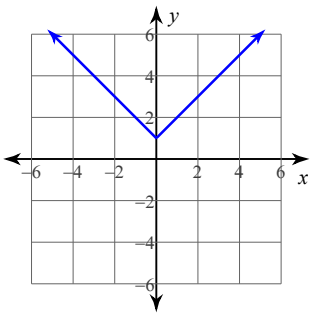
49) $\dfrac{(-2p^{-2})^{-1}}{p \cdot p}$

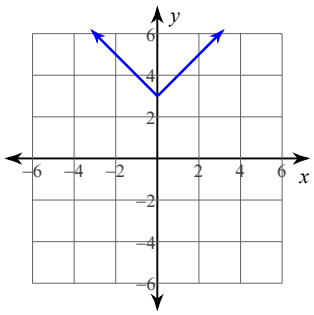
50) $\dfrac{v^4 \cdot (v^2)^2}{2v^{-4}}$

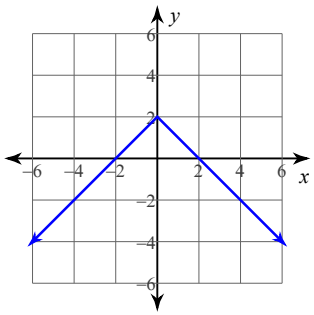
Answers to Practice for Q3Exam1 - Also, use prior quizzes/classwk (ID: 1)

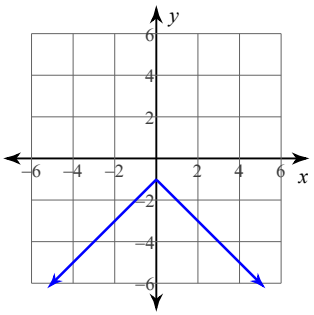
1) 

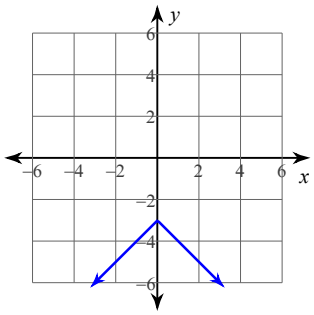
2) 

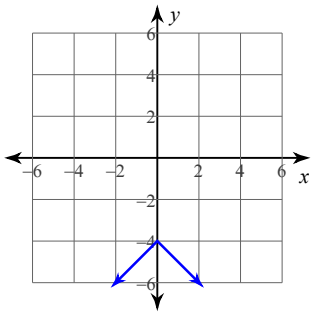
3) 

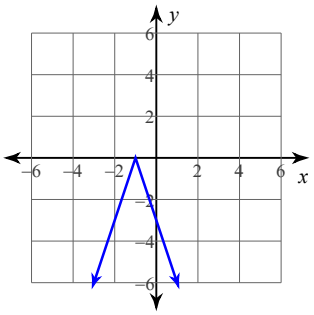
4) 

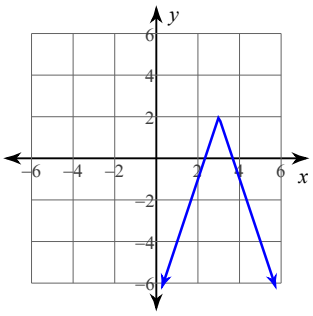
5) 

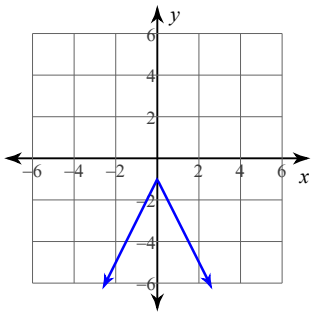
6) 

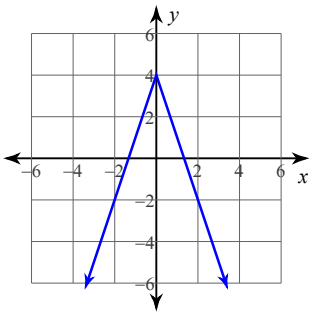
7) 

8) 

9) 

10) 

11) 

12) 

13) $y = -4x + 3$

14) $x = 2$

15) $x = -3$

16) $y = \frac{5}{4}x + 4$

17) $y = -\frac{9}{4}x + 5$

18) $y = -\frac{3}{2}x + 5$

19) $y = -\frac{3}{2}x - 2$

20) $y = -\frac{9}{5}x - 4$

21) $y = -2x - 8$

22) $y = -2x - 2$

23) $y = \frac{4}{3}x - 3$

24) $y = \frac{1}{4}x - 1$

25) $\frac{n^{11}}{2}$

26) $\frac{1}{16n^{15}}$

27) $16v^{8}$

28) $\frac{8}{n^{9}}$

29) $8b^{6}$

30) $-\frac{1}{8k^{27}}$

31) $\frac{1}{16x}$

32) $-\frac{4}{r^{6}}$

33) $\frac{1}{2x^{2}}$

34) $\frac{m^{9}}{8}$

35) $-k^{10}$

36) $\frac{1}{4x^{8}}$

37) $-\frac{1}{4x^9}$

38) $-n^8$

39) $\frac{1}{r^{30}}$

40) $\frac{1}{256x^6}$

41) $-\frac{1}{n^3}$

42) $-\frac{1}{x^9}$

43) $\frac{1}{b^4}$

44) 1

45) $\frac{2}{a^{11}}$

46) $\frac{x^9}{8}$

47) $\frac{p^4}{2}$

48) $\frac{4}{n^2}$

49) $-\frac{1}{2}$

50) $\frac{v^{12}}{2}$