

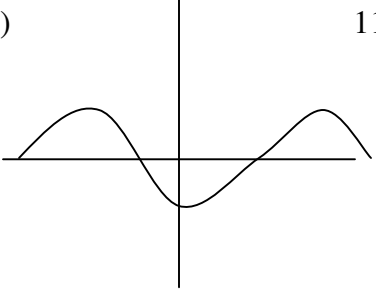
Ch. 2 Test Corrections

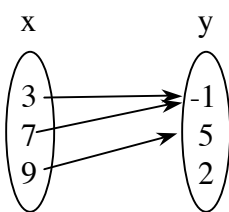
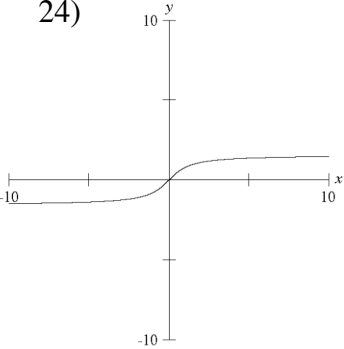
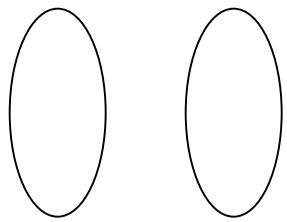
Advanced Algebra



Name _____

Date 9-17-2008

Skill 9	Evaluate using the order of operations. 1) $10 \div 2 \times 3 - 3$ 2) $3^2(5 - 1) + 1$ 3) $5 \cdot 5 + \frac{5}{5 - 4}$	1) _____ 2) _____ 3) _____										
Skill 10	Identify the property: 4) $(2)(3 \cdot 4) = (2 \cdot 3)(4)$ 5) $4(w + y) = 4w + 4y$ 6) $1 = 2(1/2)$	4) _____ 5) _____ 6) _____										
Skill 11	Simplify and write with positive exponents only. 7) $\left(\frac{s^{-3}}{4t^{-2}}\right)\left(\frac{4t^{-2}}{s^{-3}}\right)^2$ 8) $\left(\frac{2x^{-3}y^{-2}}{z^2}\right)^5$ 9) $\left[\frac{(mp^3)^3}{p^5m^2}\right]^{-4}$	7) _____ 8) _____ 9) _____										
Skill 12	Indicate which relation is a function: 10)  11) <table border="1" data-bbox="698 1302 844 1596"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> </tr> <tr> <td>2</td> <td>1</td> </tr> <tr> <td>3</td> <td>1</td> </tr> <tr> <td>4</td> <td>1</td> </tr> </tbody> </table> 12) $\left\{\left(\frac{2}{6}, \frac{1}{4}\right), \left(\frac{1}{3}, \frac{1}{5}\right), \left(\frac{4}{3}, 7\right)\right\}$	x	y	1	1	2	1	3	1	4	1	10) _____ 11) _____ 12) _____
x	y											
1	1											
2	1											
3	1											
4	1											
Skill 13	Evaluate each function: 13) $g(x) = 3x - 2$; for $x = -3$ 14) $g(x) = -2x^3$; find $g(-2)$ 15) $g(w) = w^2 - 3w + 1$; find $g(x)$	13) _____ 14) _____ 15) _____										

Skill 14	Perform the given operation for: $f(x) = -3x$ & $g(x) = 2 - x^2$ 16) $f + g$ 17) $(f)(g)$ 18) $f - g$	16) _____ 17) _____ 18) _____
Skill 15	Evaluate each composite function for: $f(x) = 2 - 4x$ and $g(x) = x + 1$. 19) $f \circ g$ 20) $g \circ f$ 21) $(f \circ g)(5)$	19) _____ 20) _____ 21) _____
Skill 16	Find the inverse of each relation. 22) $\{(-1,2),(5,2),(1,3),(3,-1)\}$ 23)  24) 	22) _____ 23)  24) PUT IT ON THE GRAPH
Skill 17	Find the inverse of each function: 25) $g(x) = \frac{2}{3}x - 3$ 26) $g(x) = 5(x - 1)$ 27) $g(x) = \frac{2x + 1}{3}$	25) _____ 26) _____ 27) _____
Skill 18	Evaluate: 28) $\lfloor -3.1495 \rfloor$ 29) $5 + -3.5$ 30) $\lfloor -3.3 \rfloor - -3.3$	28) _____ 29) _____ 30) _____

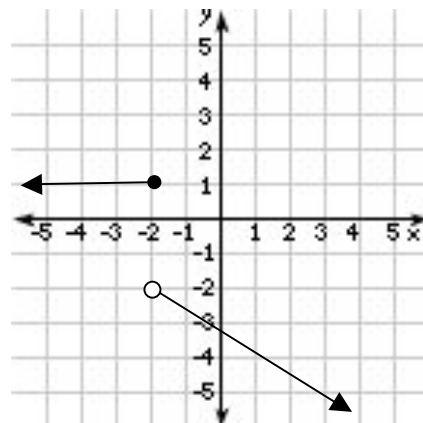
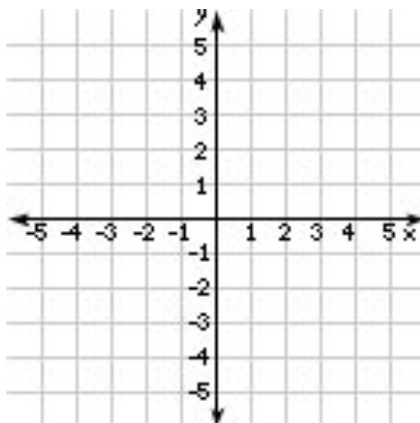
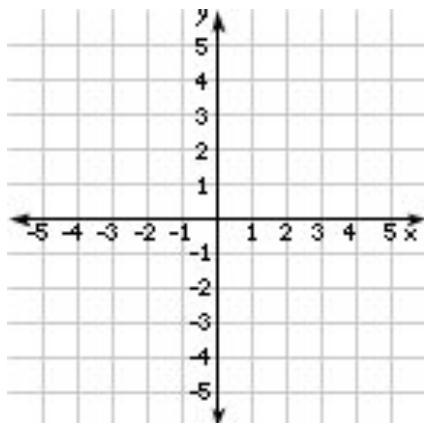
Skill
19

Graph each special function.

31) $g(x) = \begin{cases} 2x-1 & \text{if } x < -3 \\ 4-x & \text{if } x \geq -3 \end{cases}$

32) $g(x) = [x-2]$

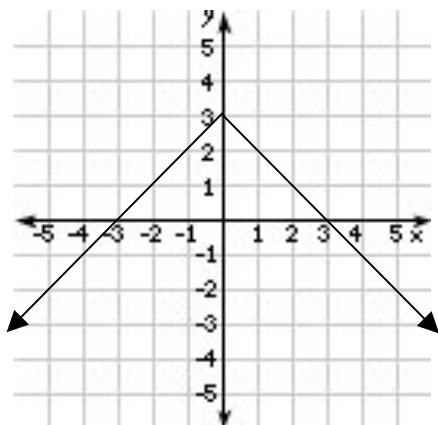
33) Write a piecewise $f(x)$ for the graph below.



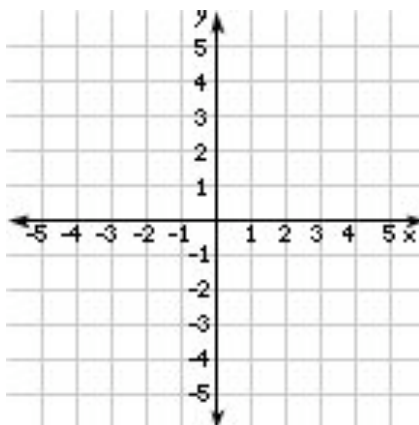
Skill
20

Absolute Value Functions.

31) Write the equation for the graph below.



32) Graph $f(x) = \frac{1}{2}|x-3|+2$



33) Describe each transformation.

$$f(x) = \frac{1}{5}|x-2|-1$$
