

Answers to Unit A Review (ID: 1)

1) $y = 25000x + 110000$
\$210,000

2) No

3) Yes

4) Yes

5) No

6) $(-\infty, -3) \cup (-3, \infty)$

7) $(-\infty, \infty)$

8) -5, 5 with brackets on both.

9) Increasing: $(-\infty, 0), (2, \infty)$ Decreasing: $(0, 2)$

10) Increasing: $(1, \infty)$ Decreasing: $(-\infty, 1)$

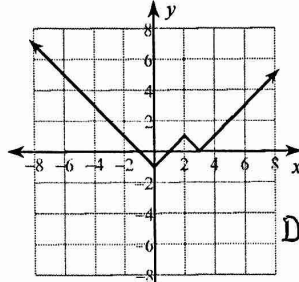
11) Increasing: $(3, \infty)$

Decreasing: $(-\infty, -3)$

12) Decreasing: $(-2, 5)$

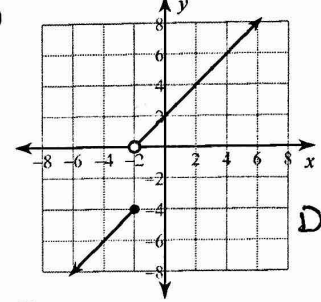
Constant: $(-\infty, -2), (5, \infty)$

13)



$D: (-\infty, \infty)$

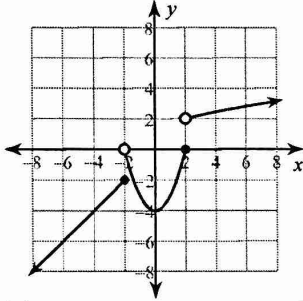
14)



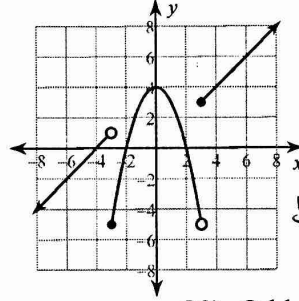
$D: (-\infty, \infty)$

$D: (-\infty, \infty)$

15)



16)



$D: (-\infty, \infty)$

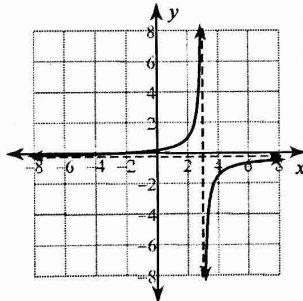
17) Even

18) Even

19) Even

20) Odd

21)



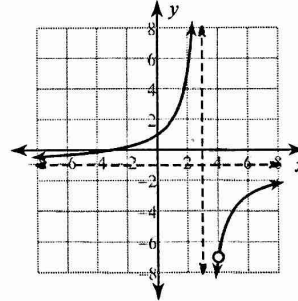
Holes: None

Horz. Asym.: $y = -\frac{1}{4}$

x-intercepts: -2, y-intercept: $\frac{1}{6}$

Domain:
All reals except 3

22)



Holes: $x = 4$

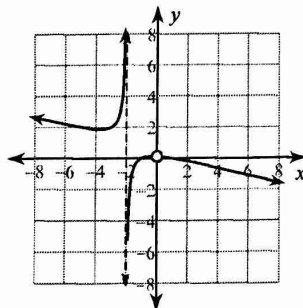
Horz. Asym.: $y = -1$

x-intercepts: -3, y-intercept: 1

Domain:

All reals except 3, 4

23)



Holes: $x = 0$

Horz. Asym.: None

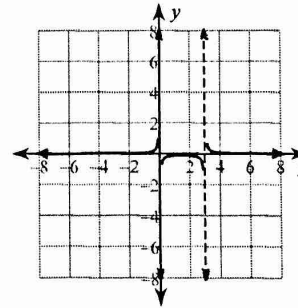
x-intercepts: 1, -1, y-intercept: None

Domain:

All reals except -2, 0

SA: $y = -\frac{1}{4}x + \frac{1}{2}$

24)



Holes: None

Horz. Asym.: $y = 0$

x-intercepts: None, y-intercept: None

Domain:

All reals except 0, 3