

## Answer Key

### Practice • Linearity, Intercepts, and Symmetry Form A

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1) Yes  
can

2) No  
is not

3) linear

4) linear

5) is not  
does not contains

6) -18  
16

7) -0.5  
-4

8) -1  
7

9A) 7  
3

9B) seconds  
inches

10) line symmetry

11A) odd; about the origin

11B)  $f(-x) = 2(-x)^3 - 8(-x) = -2x^3 + 8x = -f(x)$

12A) even; about the y-axis

12B)  $f(-x) = (-x)^2 + 2 = x^2 + 2 = f(x)$

13) Yes  
can  
neither even nor odd

14) No  
x  
neither even nor odd

15) No  
is  
neither even nor odd

16A) nonlinear

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**16B)** -4, -1, 1, 4

16

line symmetry

**17)** line symmetry;  $x = 50$

**18A)** Yes

is

**18B)** number of clients

initial cost

**19A)** 90

720

**19B)** minutes it takes for there to be 0 gallons

initial amount

No

not

**20)** stopping distance

velocity

coefficient of friction (unitless)

acceleration due to gravity ( $9.80 \text{ m/s}^2$ )

0

not moving

no distance

**21)** No

$$f(x) = x^3 + 2x - 5$$

**22)** Never

vertical line

is not