1) input, output
2) independent: a
   dependent: b
5) $D = \{6, 12, 21, 42\}$
   $R = \{5, 7, 10, 17\}$
6) function
7) not a function
8) function
9) It IS a function because each
   input is paired with exactly
   one output.
10) Domain is 1, 2, 3, 4, and 5.
12) B
13) A

16) $R = \{4, 19, 25, 34\}$
17) $R = \{5, 6, 7.5, 8.5\}$
18) $R = \{3, \frac{13}{3}, \frac{17}{3}, \frac{25}{3}\}$
20) $y = x + 2.2$
21) $y = x - 8$
25) $y = 100 + 20x$,
    x: independent, y: dependent,
    $D = \{0, 1, 2, 3, 4, 5, 6, 7,$
       $8, 9, 10, 11, 12\}$
    $R = \{120, 140, 160, 180, 200, 220,$
       $240, 260, 280, 300, 320, 340\}$
    $340
28) a: $h = c + 8$
    b: 38 mi/gal
    c: ≈ $~~364~~$
    # 634

30) D
31) A

8) Yes

$y = x^2$
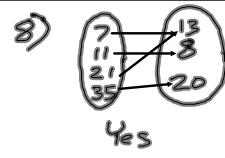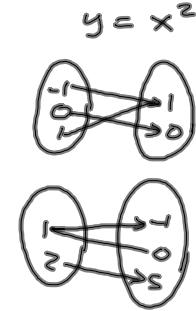
25) $y = 100 + 20x$

ind. → x, number of months
dep → y, dollars

$y = 100 + 20(12)$
$y = 100 + 240$
$= 340$

28) 24 → 32
    26 → 34
    27 → 35
    28 → 36

$y = x + 8$
$h = c + 8$

b) $h = 30 + 8$
   $h = 38$ mi/gal

c) $\frac{11,550}{c} + \frac{9450}{h} = ?$

$\frac{11,550}{30} + \frac{9450}{38}$

$385 + 248.68$

$~~$~~ 633.68