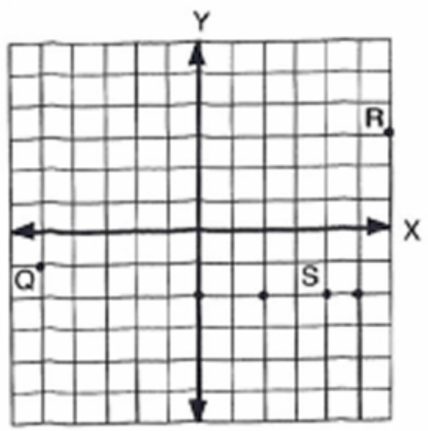
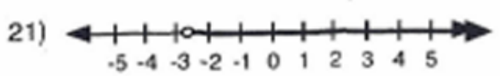
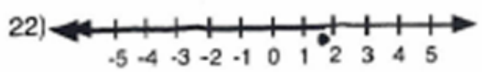
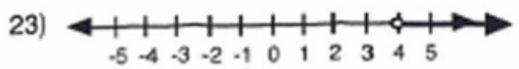
5B

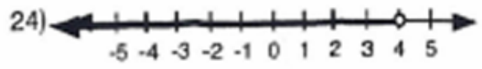
1) (2, 3)
2) 1
3) (-1, -3)
4) 3
5) (2, -2)
6) 4
7) (-2, 1)
8) 2
9) (5, -5)
10) 4
11) on graph
12) 3
13) on graph
14) 1
15) on graph
16) 4
17) (0, 0)
18) negative, negative
19) the same Y coordinate
20) Y, -2



21) 

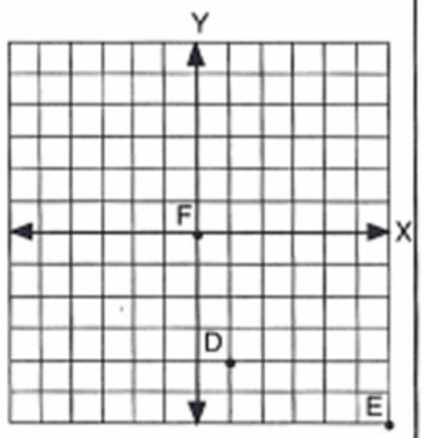
22) 

23) 

24) 

5C

1) (5, 4)
2) (2, 6)
3) (-2, 1)
4) see graph
5) see graph
6) see graph
7) Descartes



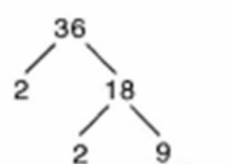
8) positive, positive
9) Y, X
10) origin
11) 100(.05X) + 100(.12X) = 100(.85)
5X + 12X = 85, 17X = 85, X = 5
12) -72 + 8Y = 32
8Y = 104, Y = 13
13) 7(-B + 2 + 7 - 1) = 13 + 3B + 5B
7(-B + 8) = 13 + 8B, -7B + 56 = 13 + 8B
43 = 15B, 2 13/15 = B
14) -4(P - 6) + 2P = |5 - 3 + 6|
-4P + 24 + 2P = |8|
-2P + 24 = 8, 16 = 2P, 8 = P
15) 3 = 3, 4 = 2 x 2, 7 = 7,
so LCM = 2 x 2 x 3 x 7 = 84

$$\overset{12}{\cancel{(84)}}\frac{18}{\cancel{7}} \cdot \overset{21}{\cancel{(84)}}\frac{1}{\cancel{4}}Q = \overset{28}{\cancel{(84)}}\frac{-17}{\cancel{3}}$$

216 - 21Q = -476, Q = 32 20/21

16) 100(.3X) - 100(.06X) = 100(1.25)
30X - 6X = 125, 24X = 125,
X = 5 5/24 or 5.21 (rounded)
17) 116 = 2 x 2 x 29

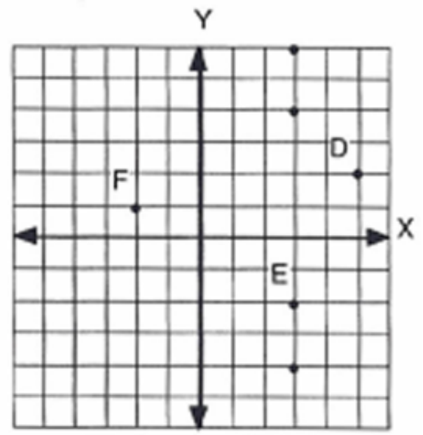
18) 36 = 2 x 2 x 3 x 3



19) B + A
20) A + (B + C)

5D

1) (-3, -1)
2) (0, -4)
3) (-4, 2)
4) see graph
5) see graph
6) see graph
7) cartesian



8) negative, positive
9) same X coordinate
10) X, 3
11) 10(-1.3) + 10(2.7) = 10(.2Y)
-13 + 27 = 2Y, 14 = 2Y, 7 = Y
12) 17Q - 14XQ = 11Q
Q(17 - 14X) = Q(11)
17 - 14X = 11, -14X = -6, X = 3/7
13) D(3 - 7) - 12 = 0
3D - 7D - 12 = 0
-4D = 12, D = -3
14) $(6^2 \div 9) \times 2 - 9Y = 8(Y - 4 + 9)$
$(36 \div 9) \times 2 - 9Y = 8(Y + 5)$
4 x 2 - 9Y = 8Y + 40
8 - 9Y = 8Y + 40, -32 = 17Y, -1 15/17 = Y
15) 2 = 2, 4 = 2 x 2, 7 = 7,
so LCM = 2 x 2 x 7 = 28

$$\overset{14}{\cancel{(28)}}\frac{9}{\cancel{2}} = \overset{7}{\cancel{(28)}}\frac{5}{\cancel{4}}R + \overset{4}{\cancel{(28)}}\frac{17}{\cancel{7}}$$

126 = 35R + 68, R = 1 23/35

16) 100(.35P) + 100(3.2) = 100(-4P)
35P + 320 = -400P
435P = -320, P = -.74 (rounded) or -64/87
17) $75\% = \underline{.75} = \frac{75}{100} = \frac{3}{4}$
18) $113\% = \underline{1.13} = \frac{113}{100} = 1\frac{13}{100}$
19) $\frac{2}{5} = \frac{40}{100} = \underline{.40} = \underline{40}\%$
20) AB + AB