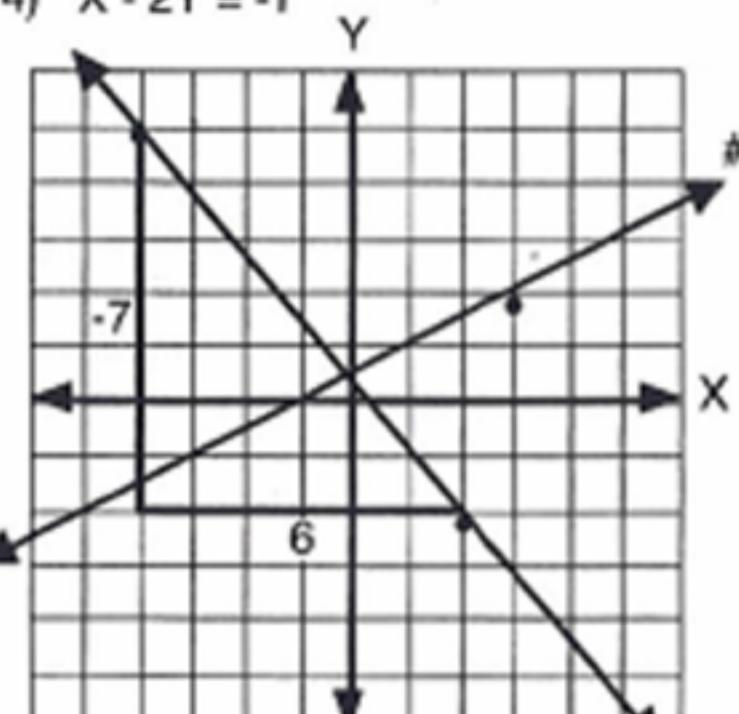
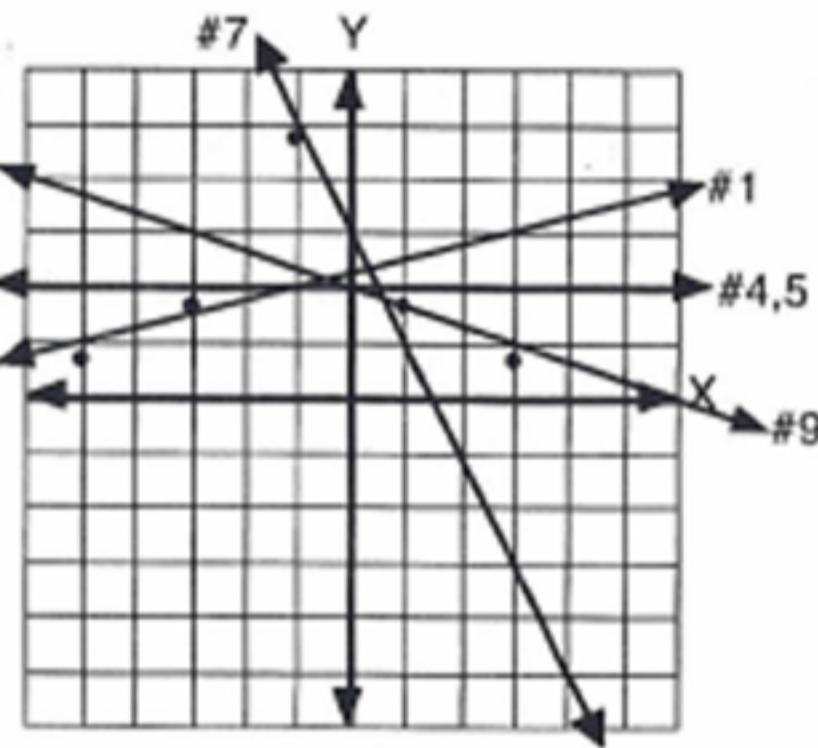


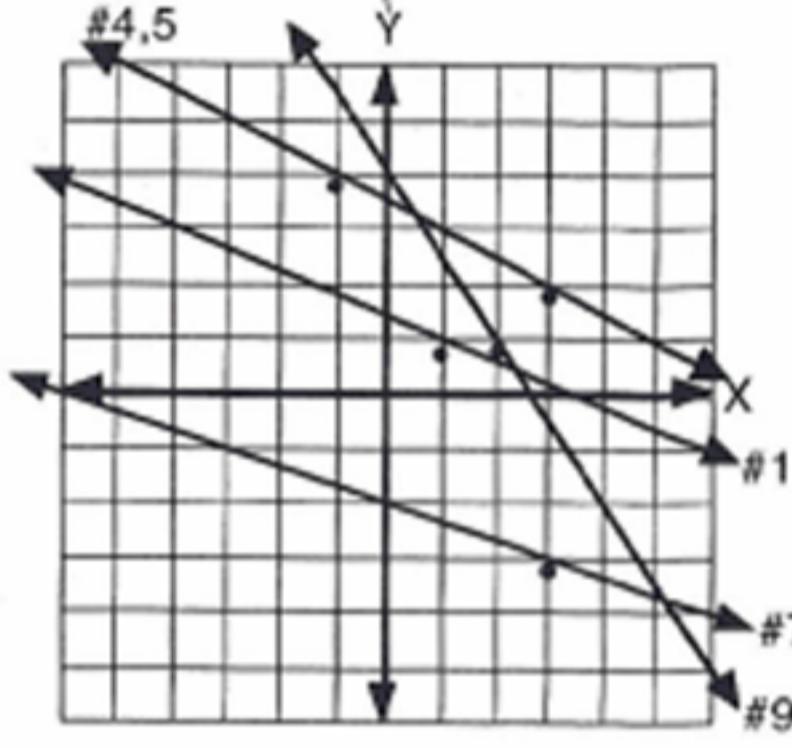
11B

- 1) on the graph
 2) $2 = \frac{1}{2}(3) + b$, $b = \frac{1}{2}$
 3) $Y = \frac{1}{2}X + \frac{1}{2}$
 4) $X - 2Y = -1$
- 
- 5) $\frac{-2 - 5}{2 - (-4)} = -\frac{7}{6}$ (see graph)
 6) $Y = -\frac{7}{6}X + b$
 $(-2) = -\frac{7}{6}(2) + b$
 $-2 = -\frac{14}{6} + b$, $b = \frac{1}{3}$ (see graph)
 7) $Y = -\frac{7}{6}X + \frac{1}{3}$
 8) $Y + \frac{7}{6}X = \frac{1}{3}$, $7X + 6Y = 2$
 9) $(2) = 8(1) + b$
 $2 = 8 + b$, $b = -6$
 $Y = 8X - 6$
 10) $(2) = 3(1) + b$
 $2 = 3 + b$, $b = -1$
 $Y = 3X - 1$
 11) $(0) = -2(3) + b$
 $0 = -6 + b$, $b = 6$
 $Y = -2X + 6$
 12) $\frac{3 - 5}{-2 - 2} = \frac{-2}{-4} = \frac{1}{2}$ $(3) = \frac{1}{2}(-2) + b$
 $4 = b$, $Y = \frac{1}{2}X + 4$
 13) $\frac{1 - 2}{1 - 5} = \frac{-1}{-4} = \frac{1}{4}$ $(1) = \frac{1}{4}(1) + b$
 $\frac{3}{4} = b$, $Y = \frac{1}{4}X + \frac{3}{4}$
 14) $\frac{1 - (-3)}{-3 - (-2)} = \frac{4}{-1} = -4$ $(1) = -4(-3) + b$
 $-11 = b$, $Y = -4X - 11$
 15) $\frac{-1 - (-6)}{-2 - (-5)} = \frac{5}{3}$ $(-1) = \frac{5}{3}(-2) + b$
 $\frac{7}{3} = b$, $Y = \frac{5}{3}X + \frac{7}{3}$
 16) $\frac{6 - (-3)}{-1 - 5} = \frac{9}{-6} = -\frac{3}{2}$ $(6) = -\frac{3}{2}(-1) + b$
 $\frac{9}{2} = b$, $Y = -\frac{3}{2}X + \frac{9}{2}$
 17) $\frac{8 - 2}{-3 - 7} = \frac{6}{-10} = -\frac{3}{5}$ $(2) = -\frac{3}{5}(7) + b$
 $\frac{6}{5} = b$, $Y = -\frac{3}{5}X + \frac{6}{5}$

11C

- 1) on the graph
 2) $(1) = \frac{1}{4}(-5) + b$
 $1 = -\frac{5}{4} + b$, $b = \frac{9}{4}$
 3) $Y = \frac{1}{4}X + \frac{9}{4}$, $X - 4Y = -9$
 4) $\frac{2 - 2}{-3 - 1} = \frac{0}{-4} = 0$ (see graph)
 5) (see graph) $(2) = 0(1) + b$, $b = 2$
 6) $Y = 2$; $Y = 2$
- 
- 7) on the graph (slope must be -2)
 8) $(5) = -2(-1) + b$, $b = 3$
 $Y = -2X + 3$, $2X + Y = 3$
 9) on the graph (slope must be -1/3)
 10) $(1) = -\frac{1}{3}(3) + b$, $b = 2$
 $Y = -\frac{1}{3}X + 2$, $X + 3Y = 6$
 11) distributive
 12) commutative
 13) commutative
 14) associative
 15) $\sqrt{9} = 3$
 16) $45\% = .45$, $.45 \times 98 = 44.10$
 17) $\frac{5 \text{ boys}}{1 \text{ girl}} = \frac{5}{1}$
 18) $\frac{5 \text{ boys}}{6 \text{ total}} = \frac{5}{6}$
 19) $\frac{5}{6} = 5 \div 6 = .83 = 83\%$
 20) $\frac{5}{8} \times \frac{8}{48} = \frac{5}{48} = \frac{1}{9.6}$ boys

11D

- 1) on the graph
 2) $(1) = -\frac{2}{5}(1) + b$
 $1 = -\frac{2}{5} + b$, $b = \frac{7}{5}$
 3) $Y = -\frac{2}{5}X + \frac{7}{5}$, $2X + 5Y = 7$
 4) $\frac{2 - 4}{3 - (-1)} = \frac{-2}{4} = -\frac{1}{2}$ (see graph)
 5) (see graph) $(2) = -\frac{1}{2}(3) + b$, $b = \frac{3}{2}$
 6) $Y = -\frac{1}{2}X + \frac{3}{2}$, $X + 2Y = 7$
- 
- 7) on the graph (slope must be -1/3)
 8) $(-3) = -\frac{1}{3}(3) + b$, $b = -2$
 $Y = -\frac{1}{3}X - 2$, $X + 3Y = -6$
 9) on the graph (slope must be -3/2)
 10) $(1) = -\frac{3}{2}(2) + b$, $b = 4$
 $Y = -\frac{3}{2}X + 4$, $3X + 2Y = 8$
 11) true
 12) false
 13) false
 14) true
 15) $\sqrt{49} = 7$
 16) $16\% = .16$, $.16 \times 32 = 5.12$
 17) $\frac{5 \text{ Steeler}}{8 \text{ total}} = \frac{5}{8}$, $5 \div 8 = .625 = 62.5\%$
 18) $\frac{3 \text{ Eagle}}{8 \text{ total}} = \frac{3}{8}$, $3 \div 8 = .375 = 37.5\%$
 19) $.375 \times 640 = 240$ Eagle fans
 $.625 \times 640 = 400$ Steeler fans
 (may also be computed with fractions)
 20) $Y = 20(15) + 100$, $Y = \$400$