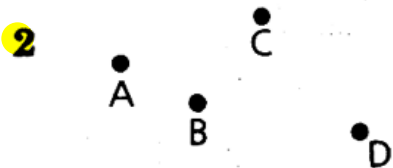


p.20 #1-3, 6-13, 15**Pages 20-22 (Section 1.3)**

1 $3x + 8 + x + 4 = 180^\circ$, $m\angle ABC = 134$



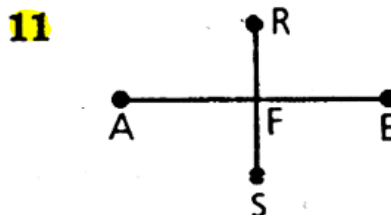
3 a B, D b no, yes c \overline{AB} , \overline{BC} d yes e not necessarily

f B g G h \overline{AF} i \overline{EB} , \overline{ED} j E, B

6 $3x + 2x = 90$, $5x = 90$, $x = 18$, $3x = 54$ **7** Possible answers:

a 33° and 40° b 60° and 70° c 45° and 45° **8** a $124^\circ 36'$

b $84\frac{5}{6}^\circ$ **9** $3x + x = 180$, $4x = 180$, $x = 45$, $3x = 135^\circ$



12 B **13** a 15 b 3 **14** a $-8 < Q < 4$ b $PQ + QR = PR = 12$

15 $(2x + 40) + (2y + 40) = 180$ $2(20) + 2y = 100$

$(x + 2y) + (2y + 40) = 180$ $40 + 2y = 100$

$2x + 2y = 100$ $2y = 60$

$x + 4y = 140$ $y = 30$

$-4x - 4y = -200$ $m\angle 1 = 80$

$x + 4y = 140$ $m\angle 2 = 100$

$-3x = -60$ $m\angle 3 = 80$

$x = 20$