

Name: _____

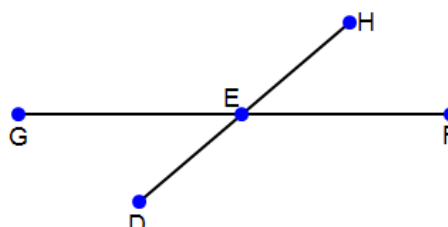
Congruent Segments

In the given figure below, E is the midpoint of \overline{DH} . Find the value of x.

25) $DE = 45, EH = 5x - 10$

26) $DE = 3x, EH = x + 6$

27) $DE = 2x - 3, EH = 5x - 24$



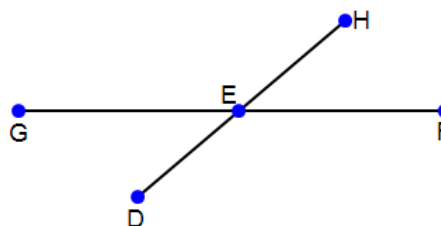
In the given figure below, find the value of y and then find GE and EH and state whether E is the midpoint of \overline{GF} .

28) $GE = y, EF = y - 1, GF = 11$

29) $GE = 3y, GF = 7y - 4, EF = 24$

30) $GE = y + 2, GF = 20, EF = 2y - 6$

31) $GF = y + 6, EF = 2y - 4, GE = y$



In the given figure, M is the midpoint of \overline{AB} . Find the coordinates of A, B or M for the given data.

32) A: $p - 4$; M: 8; B: $p + 12$

33) A: $3p - 1$; M: 10; B: $2p + 6$

34) A: $p - 8$; M: 10; B: $p + 6$

35) A: $2p - 2$; M: 14; B: $4p + 6$

36) A: -4 ; M: $6 - p$; B: $2p - 4$

37) A: $12 - 2p$; M: $p - 6$; B: 16

