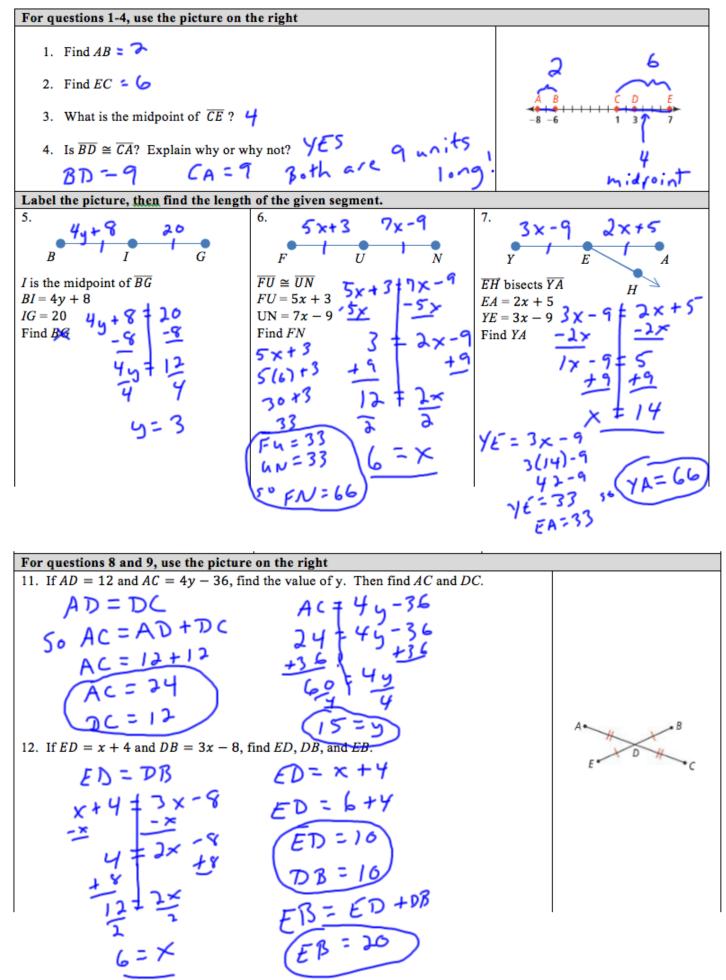
1.2 Practice Solutions



| Find the midpoint and distance given the two endpoints | | |
|--|--|--|
| 13. (12,15) and (-8, -22) $M : \left(\frac{12+79}{2}, \frac{15+7}{2}\right)$ $M = \left(\frac{4}{2}, -\frac{7}{2}\right)$ $M = \left(2, -\frac{7}{2}\right)$ | 14. $M = \begin{pmatrix} -3+14 & 5+28 \\ -3+14 & 5+28 \end{pmatrix}$ $M = \begin{pmatrix} -11 & 33 \\ -2 & -3 \end{pmatrix}$ | 15. $ \begin{array}{c} 6 \\ 9 \\ 0 \\ 6 \\ 6 \\ -9 \\ -9 \\ -6 \\ -9 \\ -6 \\ -9 \\ -6 \\ -9 \\ -6 \\ -9 \\ -6 \\ -9 \\ -6 \\ -9 \\ -6 \\ -6 \\ -9 \\ -6 \\ -6 \\ -9 \\ -6 \\ -6 \\ -6 \\ -9 \\ -6 \\ -6 \\ -6 \\ -6 \\ -6 \\ -6 \\ -6 \\ -6$ |
| $d = \int (-8 - 13)^2 + (-32 - 15)^2$ $d = \int (-20)^2 + (-27)^2$ $d = \int 400 + 1369$ $d = \int 1769 \approx 42.06$ | $d = \sqrt{(14^{-1})^{2} + (28 - 5)^{2}}$ $d = \sqrt{17^{2} + 33^{2}}$ $d = \sqrt{287 + 529}$ $d = \sqrt{818} \approx 28.6$ | $ \begin{array}{c} (1 - (2), 2) \\ = (-3, 0) \\ = (-3, 0) \\ M = (-3, 0) \\ M = (-3, 0) \\ M = (-$ |

