

Unit 1 Test Review

- 1) If $DM = 35$, what is the value of r ?



$$\begin{aligned} 11 + 5 + 33 - 14 \\ 16 + 33 - 14 \\ 2 + 33 = 35 \end{aligned}$$

$$r + 5 + 3r - 14 = 35$$

$$\begin{aligned} 4r - 9 &= 35 \\ +9 &+9 \end{aligned}$$

$$\frac{4r}{4} = \frac{44}{4}$$

$$r = 11$$

Use the following diagram to answer Q2 and 3.

Points P, Q and S are collinear. (Just Note)

- 2) What is $m\angle PQR$?

$$\begin{aligned} 3x - 6 + x + 2 &= 180 \\ 4x - 4 &= 180 \\ +4 &+4 \end{aligned}$$

$$\begin{aligned} \frac{4x}{4} &= \frac{184}{4} \\ x &= 46 \end{aligned}$$



$$3(46) - 6 = 138 - 6 = 132^\circ = m\angle PQR$$

- 3) If \overline{QT} bisects $\angle RQS$, what will be the measure of one of the resulting angles?

$$46 + 2 = 48 / 2 = 24^\circ$$

- 4) Points L, M, and N, are collinear. You are given $LM = 18$ and $LN = 27$. What is a possible value of MN ?



$$\begin{aligned} 27 \\ - 18 \\ \hline 9 \end{aligned} \quad \overline{MN} = 9$$

- 5) \overline{BD} bisects $\angle ABC$ so that $m\angle DBC = (x + 8)^\circ$ and $m\angle ABD = (2x - 15)^\circ$. What is the value of x ?



$$\begin{aligned} 2x - 15 &= x + 8 \\ -x &-x \\ x - 15 &= 8 \\ +15 &+15 \\ x &= 23 \end{aligned}$$

- 6) What is the length of \overline{FG} if $F(2, 11)$ and $G(5, 16)$? Round to the nearest whole number.

$$\begin{aligned} &\sqrt{(5 - 2)^2 + (16 - 11)^2} \\ &\sqrt{9 + 25} \quad \sqrt{34} \approx 5.8 \end{aligned}$$

about 6

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A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the text box.

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many types of tests on soils these include testing of a large range of sample sizes for compressibility shear strength and
drainage properties basic equipment for soil dynamics field and laboratory experiments

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web geotechnical engineering course code cv2014 course description the objective of the course is to extend students understanding of the fundamental principles of soil mechanics upon completion of the course students should have an understanding of how to apply the fundamental soil mechanics concepts to simple geotechnical design a u 3au