

Name Key

SEMESTER 1 EXAM REVIEW

Use the diagram to answer the following questions.

1. Find three points that are collinear.

A, Z, R

2. Write three different names for line p .

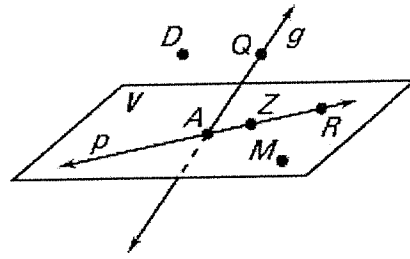
$\overleftrightarrow{AZ}, \overleftrightarrow{AR}, \overleftrightarrow{ZR}$

3. Name a point not coplanar with $M, R,$ and Z .

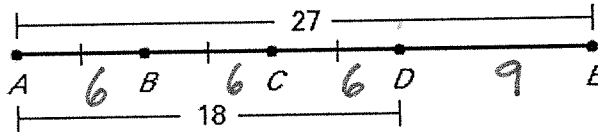
D or Q

4. What is the intersection of \overline{AQ} and \overline{ZR} ?

A



Find the indicated length.



5. DE 9

6. AB 6

7. BD 12

8. CE 15

Find the exact distance between the two points.

9. $A(x_1, y_1)$ and $B(x_2, y_2)$
 $A(2, 3)$ and $B(5, -1)$

$\sqrt{(5-2)^2 + (-1-3)^2} = \sqrt{25} = 5$

10. $C(x_1, y_1)$ and $D(x_2, y_2)$
 $C(4, -7)$ and $D(-8, -2)$

13

11. $E(-1, 5)$ and $F(3, 10)$

$\sqrt{41} = 6.40$

12. $G(7, 1)$ and $H(5, 9)$

$\sqrt{68} = 8.25$

$\angle 1$ and $\angle 2$ are complementary angles. Given the measure of $\angle 1$, find $m\angle 2$.

17. $m\angle 1 = 22^\circ$ 68°

18. $m\angle 1 = 89^\circ$ 1°

$\angle 3$ and $\angle 4$ are supplementary angles. Given the measure of $\angle 3$, find $m\angle 4$.

21. $m\angle 3 = 14^\circ$ 166°

22. $m\angle 3 = 100$ 80°