



Grade 10 Analytic Geometry Unit Test

Name _____ Date _____ Score _____ / 8

Part A · Distance & Midpoint

01 Equation of the right bisector of A(-6, 6) and B(-2, 4) =

Answer: _____

02 Distance between (0, 2) and (3, 6) =

Answer: _____

03 A circle centred at the origin passes through (-15, 8). Its equation =

Answer: _____

04 M(4, 1) is the midpoint of A(6, 4) and B. Find B.

Answer: _____

Part B · Systems of Equations

05 $2x + 5y = -42$; $x + 3y = -24$ =

Answer: _____

06 $3x - 2y = 0$; $-5x + 4y = 0$ =

Answer: _____

07 $4x - 3y = 42$; $6x + 5y = 6$ =

Answer: _____



Grade 10 Analytic Geometry Unit Test

Part B · Systems of Equations (continued)

08 $3x + 5y = 29$; $3x + 4y = 25$ =

Answer: _____



Grade 10 Analytic Geometry Unit Test (Answer Key)

Part A · Distance & Midpoint

01 Equation of the right bisector of A(-6, 6) and B(-2, 4) =

$$y = 2x + 13$$

02 Distance between (0, 2) and (3, 6) =

$$5$$

03 A circle centred at the origin passes through (-15, 8). Its equation =

$$x^2 + y^2 = 289$$

04 M(4, 1) is the midpoint of A(6, 4) and B. Find B.

$$(2, -2)$$

Part B · Systems of Equations

05 $2x + 5y = -42$; $x + 3y = -24$ =

$$x = -6, y = -6$$

06 $3x - 2y = 0$; $-5x + 4y = 0$ =

$$x = 0, y = 0$$

07 $4x - 3y = 42$; $6x + 5y = 6$ =

$$x = 6, y = -6$$



Grade 10 Analytic Geometry Unit Test (Answer Key)

Part B · Systems of Equations (continued)

08 $3x + 5y = 29$; $3x + 4y = 25$ =

$x = 3, y = 4$