

Math C  
9.2 (part 3)

Solve by completing the square.

1.  $33 = a^2 - 8a$

2.  $x^2 - 22x = -40$

3.  $r^2 + 6r - 27 = 0$

4.  $0 = y^2 + 10y - 24$

5.  $0 = k^2 + 20k - 44$

6.  $y^2 - 24y + 80 = 0$

7.  $0 = n^2 - 4n + 20$

8.  $w^2 - 10w + 26 = 0$

9.  $a^2 - 9a = 36$

10.  $v^2 + 15v = -56$

**Acces format version 3.60B**  
© 1997–2003 EducAide Software  
Licensed for use by Atwater High School

Math C    9.2 (part 3)    amiller    12/9/2020

**Answer List**

- |                |                |
|----------------|----------------|
| 1. 11, -3      | 2. 20, 2       |
| 3. 3, -9       | 4. 2, -12      |
| 5. -22, 2      | 6. 4, 20       |
| 7. $\emptyset$ | 8. $\emptyset$ |
| 9. 12, -3      | 10. -7, -8     |

**Catalog List**

- |              |               |              |              |
|--------------|---------------|--------------|--------------|
| 1. ALG NC 2  | 2. ALG NC 4   | 3. ALG NC 6  | 4. ALG NC 8  |
| 5. ALG NC 14 | 6. ALG NC 16  | 7. ALG NC 18 | 8. ALG NC 20 |
| 9. ALG NC 26 | 10. ALG NC 28 |              |              |