

## Answer Key for AWS Certified Welding Engineer Examination Sample Questions

— Parts 1 and 2

### Part 1 Basic Fundamentals of Science Examination

#### Mathematics

1. c.

Explanation for solving #1:  
 $\tan \theta = O/A$  and that  $\cot \theta = A/O$ . using a calculator  $\tan 63 = 1.96 = \cot \theta$ . therefore  $\theta = 27$ . If you need to work it out you could say:  
 $1.96 = \cot \theta$   
 $1.96 = 1/\tan \theta$   
 $\tan \theta = 1/1.96$   
 $\tan \theta = .51$   
 $\theta = 27$

2. a.

3. b.

4. c.

5. a.

6. c.

7. c.

Explanation for solving #7:

If  $x^2 + y^2 = 2$ , and  $xy = -1$ , then  $x^2 + y^2 = 2$

First use  $xy = -1$  and solve for  $y$

$y = -1/x$

Substitute for  $y$  into  $x^2 + y^2 = 2$

$x^2 + (-1/x)^2 = 2$

$x^2 + 2x^2 = 1 = 0$

There are several ways to solve for  $x$  from here.

You can break it down into  $(x^2-1)(x^2-1) = 0$

The solution set  $x^2 = 1$  is  $(\sqrt{1} \text{ or } -\sqrt{1})$

Using  $x = 1$  and plugging into  $xy = -1$  and solving for  $y$ ,  $y = -1$ .

Hence  $x^2 + y^2 = 2$

$1^2 + (-1)^2 = 0$

The correct answer is C. 0

There are several other ways to solve this as you could also use the Quadratic Formula and you will still end up getting an answer of 0:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

8. d.

Explanation for solving #8:

$Z = (X_{\text{ex}} - \mu)/\sigma = (72 - 60)/5 = 1.2$

From the Z Distribution Chart a value of  $Z = 1.2$  yields a factor of 0.3849

Therefore, the % exceeding  $72 = 0.5 - 0.3849 = 0.1151 = 11.5\%$ .

#### Physics

9. d.

10. a.

# Answer Key For Aws Certified Welding Engineer Examination

**Mike L Turner**

## Answer Key For Aws Certified Welding Engineer Examinati:

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