

Quiz

1) The fraction $11/4$ is equal to:

- a) 17
- b) 4.372958
- c) 2.75
- d) 0.11

2) Solve the following expression for x :

$$3x + 5 = 17$$

3) Sketch the following line:

$$3x + 2y = -2\pi$$

4) Prove the following trigonometric identity:

$$\cos(2\theta) = \cos^2\theta - \sin^2\theta$$

5) Compute the inverse of the following matrix:

$$A = \begin{pmatrix} 1 & 3 & 3 \\ 1 & 4 & 3 \\ 2 & 7 & 7 \end{pmatrix}$$

6) Compute this definite integral:

$$\int_0^{10} 2x e^{x^2} dx$$

7) Sum the following series:

$$\sum_{n=0}^{\infty} \frac{1}{2^n}$$