Worksheet 11

1. Which of the following is a solution of the equation $3x^2 + 5x - 2 = 0$?

   A. -2

   B. $-\dfrac{1}{3}$

   C. 2

   D. 6

2. Which of the following is a solution of the equation $x(5x - 7) = -2$?

   A. -1

   B. $-\dfrac{2}{5}$

   C. $\dfrac{2}{5}$

   D. 2

3. Find the sum of the roots of the equation $4x^2 - x - 5 = 0$?

   A. $-\dfrac{5}{4}$

   B. -1

   C. $\dfrac{1}{4}$

   D. $\dfrac{5}{4}$

4. Find the sum of the roots of the equation $4x^2 + 11x - 20 = 0$?

   A. -5

   B. -4

   C. $-2\dfrac{3}{4}$

   D. $\dfrac{5}{4}$

5. Which of the following is a solution of the equation $x^2 - 10x = -24$?

   A. -6

   B. -4

   C. 4

   D. 12

6. Which of the following is a solution of the equation $x^2 - 6x = x(8 + x)$?

   A. -14

   B. -1

   C. 0

   D. 14

7. Find the sum of the roots of the equation. $x^2 + 11x = -24$

   A. -11

   B. -8

   C. 11

   D. 88

8.	Find the sum of the roots of the equation. $x(5x+2)=3$

A.	$-\dfrac{8}{5}$

B.	-1

C.	$-\dfrac{3}{5}$

D.	$-\dfrac{2}{5}$

9.	Simplify and express the answer in scientific notation.

$$\frac{\left(6\times 10^2\right)\cdot\left(9\times 10^3\right)}{\left(12\times 10^3\right)-\left(9\times 10^3\right)}$$

A.	1.8×10^3

B.	1.8×10^2

C.	1.8×10^{-1}

D.	5.0×10^{-2}

10.	Find the difference.

$$\left(5x^2-2\right)-\left(x^2+2x-3\right)$$

A.	$2x^2-2x+1$

B.	$2x^2+2x-1$

C.	$4x^2-2x+1$

D.	$4x^2+2x-5$