

1. Perform polynomial long division to find the quotient and remainder.

$$-3x^2 - 4x + 1 \overline{) 15x^3 + 41x^2 + 23x - 9}$$

- A. The quotient is $-5x - 7$ and the remainder is -2 .
- B. The quotient is $-5x + 7$ and the remainder is -10 .
- C. The quotient is $-5x + 7$ and the remainder is -11 .
- D. The quotient is $-5x - 7$ and the remainder is -10 .
- E. The quotient is $-5x - 7$ and the remainder is -7 .
- F. The quotient is $-5x + 7$ and the remainder is -2 .
- G. The quotient is $-5x + 7$ and the remainder is -7 .
- H. The quotient is $-5x - 7$ and the remainder is -11 .

2. Perform polynomial long division to find the quotient and remainder.

$$-3x^2 + 4x + 9 \overline{) 27x^3 - 39x^2 - 77x + 11}$$

- A. The quotient is $-9x + 1$ and the remainder is 2 .
- B. The quotient is $-9x - 1$ and the remainder is 2 .
- C. The quotient is $-9x - 1$ and the remainder is 10 .
- D. The quotient is $-9x + 1$ and the remainder is -2 .
- E. The quotient is $-9x - 1$ and the remainder is -3 .
- F. The quotient is $-9x - 1$ and the remainder is -2 .
- G. The quotient is $-9x + 1$ and the remainder is -3 .
- H. The quotient is $-9x + 1$ and the remainder is 10 .

3. Perform polynomial long division to find the quotient and remainder.

$$-2x + 2 \overline{) -2x^2 - 12x + 19}$$

- A. The quotient is $-1x + 7$ and the remainder is 14.
- B. The quotient is $-1x + 7$ and the remainder is -2 .
- C. The quotient is $-1x + 7$ and the remainder is 9.
- D. The quotient is $1x + 7$ and the remainder is 11.
- E. The quotient is $-1x + 7$ and the remainder is 12.
- F. The quotient is $1x + 7$ and the remainder is 8.
- G. The quotient is $1x + 7$ and the remainder is 3.
- H. The quotient is $1x + 7$ and the remainder is 5.

4. Perform polynomial long division to find the quotient and remainder.

$$8x - 3 \overline{) 24x^2 + 31x - 13}$$

- A. The quotient is $3x + 5$ and the remainder is -1 .
- B. The quotient is $-3x + 5$ and the remainder is 11.
- C. The quotient is $3x + 5$ and the remainder is 2.
- D. The quotient is $-3x + 5$ and the remainder is -6 .
- E. The quotient is $3x + 5$ and the remainder is 1.
- F. The quotient is $3x + 5$ and the remainder is 8.
- G. The quotient is $-3x + 5$ and the remainder is 3.
- H. The quotient is $-3x + 5$ and the remainder is 1.

5. Perform polynomial long division to find the quotient and remainder.

$$-9x + 4 \overline{) 45x^2 - 29x - 2}$$

- A. The quotient is $-5x + 1$ and the remainder is -13 .
- B. The quotient is $5x + 1$ and the remainder is 13 .
- C. The quotient is $5x + 1$ and the remainder is -14 .
- D. The quotient is $5x + 1$ and the remainder is 1 .
- E. The quotient is $-5x + 1$ and the remainder is -6 .
- F. The quotient is $-5x + 1$ and the remainder is -4 .
- G. The quotient is $5x + 1$ and the remainder is 0 .
- H. The quotient is $-5x + 1$ and the remainder is -15 .

6. Perform polynomial long division to find the quotient and remainder.

$$8x + 4 \overline{) -24x^3 - 44x^2 - 56x - 21}$$

- A. The quotient is $-3x^2 - 4x - 5$ and the remainder is -2 .
- B. The quotient is $-3x^2 - 4x - 5$ and the remainder is -4 .
- C. The quotient is $-3x^2 + 4x - 5$ and the remainder is -2 .
- D. The quotient is $-3x^2 + 4x - 5$ and the remainder is -1 .
- E. The quotient is $-3x^2 - 4x - 5$ and the remainder is -5 .
- F. The quotient is $-3x^2 + 4x - 5$ and the remainder is -4 .
- G. The quotient is $-3x^2 + 4x - 5$ and the remainder is -5 .
- H. The quotient is $-3x^2 - 4x - 5$ and the remainder is -1 .

7. Perform polynomial long division to find the quotient and remainder.

$$-5x^2 - x + 8 \overline{) -45x^3 - 24x^2 + 69x + 20}$$

- A. The quotient is $9x - 3$ and the remainder is -7 .
- B. The quotient is $9x + 3$ and the remainder is -7 .
- C. The quotient is $9x - 3$ and the remainder is -4 .
- D. The quotient is $9x + 3$ and the remainder is -6 .
- E. The quotient is $9x - 3$ and the remainder is -6 .
- F. The quotient is $9x + 3$ and the remainder is -4 .
- G. The quotient is $9x - 3$ and the remainder is -2 .
- H. The quotient is $9x + 3$ and the remainder is -2 .

8. Perform polynomial long division to find the quotient and remainder.

$$6x^2 + 4x - 7 \overline{) 12x^3 - 40x^2 - 46x + 57}$$

- A. The quotient is $2x - 8$ and the remainder is 1 .
- B. The quotient is $2x - 8$ and the remainder is 2 .
- C. The quotient is $2x - 8$ and the remainder is -4 .
- D. The quotient is $2x + 8$ and the remainder is -4 .
- E. The quotient is $2x - 8$ and the remainder is -5 .
- F. The quotient is $2x + 8$ and the remainder is 1 .
- G. The quotient is $2x + 8$ and the remainder is -5 .
- H. The quotient is $2x + 8$ and the remainder is 2 .