

Mini Review - Quiz #2 Practice

Factor each completely.

1) $2x^3 - 5x^2 - 10x + 25$

$(x^2 - 5)(2x - 5)$

2) $25n^3 + 30n^2 + 40n + 48$

$(5n^2 + 8)(5n + 6)$

3) $4n^3 + 3n^2 - 28n - 21$

$(n^2 - 7)(4n + 3)$

4) $9a^3 - 24a^2 - 24a + 64$

$(3a^2 - 8)(3a - 8)$

5) $9m^3 - 15m^2 + 15m - 25$

$(3m^2 + 5)(3m - 5)$

6) $56a^3 - 7a^2 + 16a - 2$

$(7a^2 + 2)(8a - 1)$

7) $3n^2 + 16n - 35$

$(3n - 5)(n + 7)$

8) $3x^2 + 11x - 70$

$(3x - 10)(x + 7)$

9) $7v^2 - 38v + 15$

$(7v - 3)(v - 5)$

10) $2x^2 - 19x + 35$

$(2x - 5)(x - 7)$

$$11) 2n^2 - 3n - 14$$
$$(2n - 7)(n + 2)$$

$$12) 5x^2 - 36x + 7$$
$$(5x - 1)(x - 7)$$

Simplify.

$$13) \frac{8}{\sqrt{7}}$$
$$\frac{8\sqrt{7}}{7}$$

$$14) \frac{8}{\sqrt{13}}$$
$$\frac{8\sqrt{13}}{13}$$

$$15) \frac{7}{\sqrt{5}}$$
$$\frac{7\sqrt{5}}{5}$$

$$16) \frac{7}{9\sqrt{3}}$$
$$\frac{7\sqrt{3}}{27}$$

$$17) \frac{4}{3\sqrt{10}}$$
$$\frac{2\sqrt{10}}{15}$$

$$18) \frac{2}{4\sqrt{5}}$$
$$\frac{\sqrt{5}}{10}$$