

Name: _____ Nickname: _____ Class no.: _____ G10/ _____ Score: _____
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Practice Test

Factor each completely.

1) $8m^3 - 7m^2 + 40m - 35$

2) $28n^3 + 16n^2 + 49n + 28$

3) $24v^3 - 15v^2 - 64v + 40$

4) $4x^3 + x^2 - 20x - 5$

5) $x^6 - x^4 - 9x^2 + 9 = 0$

6) $x^8 - 2x^4 + 1 = 0$

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Practice Test

Factor each completely.

1) $8m^3 - 7m^2 + 40m - 35$

$$(m^2 + 5)(8m - 7)$$

2) $28n^3 + 16n^2 + 49n + 28$

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

3) $24v^3 - 15v^2 - 64v + 40$

$$(3v^2 - 8)(8v - 5)$$

4) $4x^3 + x^2 - 20x - 5$

$$(x^2 - 5)(4x + 1)$$

5) $x^6 - x^4 - 9x^2 + 9 = 0$

$$(x - 1)(x + 1)(x^2 - 3)(x^2 + 3) = 0$$

6) $x^8 - 2x^4 + 1 = 0$

$$(x - 1)^2 \cdot (x + 1)^2 \cdot (x^2 + 1)^2 = 0$$