Jan. 20 - bell ringer

Factor

1) $3t^2 - 14t - 24$

2) $2r^2 + 5r - 3$

Learning target:
You can

1. Divide a polynomial by a monomial
2. Divide a polynomial by a polynomial(algebraic long division)

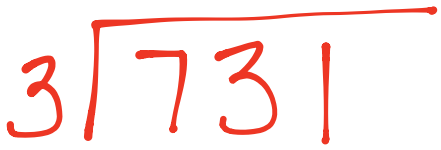
Part 1: dividing a polynomial by a monomial

1) $(4x^2 - 18x) \div (2x)$

2) $(2y^2 - 3y - 9) \div (3y)$

Part 2: dividing a polynomial by a polynomial

Long division review:



1) $(2r^2+5r-3) \div (r+3)$

2) $(x^2+7x-15) \div (x-2)$

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$(2h^3+8h^2-3h-12) \div (h+4)$

4)

$(t^3 - 2t - 4) \div (t + 4)$

5)

$(8c^3+6c-5) \div (4c-2)$

6)

$(3t^2 - 14t - 24) \div (3t + 4)$

Alternative method: Synthetic division

1) $(2r^2+5r-3) \div (r+3)$

2)

$(x^2+7x-15) \div (x-2)$

3)

$(t^3 - 2t - 4) \div (t + 4)$

4)

$(3t^2 - 14t - 24) \div (3t + 4)$

Assignment

pp. 708-709

(2-42E, omit 22, 28, 38)