

NAME:

DATE:

A2.Q2.BERMEL/LEMBO: NEXT LEVEL FACTORING

DAY N3

(REVIEW OF UNIT N AND ADDITIONAL REVIEW)

REVIEW MASTERY PRACTICE

1. (TOPIC N1) FACTOR EACH POLYNOMIAL COMPLETELY

PUT A BOX AROUND YOUR ANSWER

A. $3x^2 + 11x - 4$

B. $2x^2 - 5x - 12$

C. $6x^2 - 24$

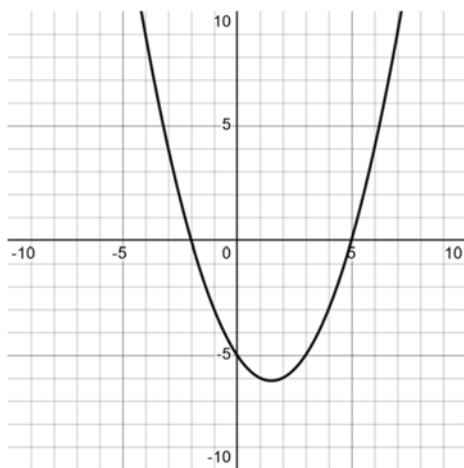
C. $6x^3 - 5x^2y - 24xy + 20y^2$

2. (TOPIC N2)

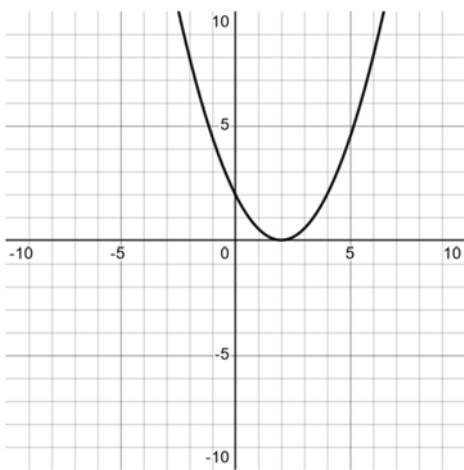
$y = f(x)$ is a quadratic function whose graph is shown. Write the factorization of $f(x)$.

Assume the leading coefficient is 0.5

PLACE A BOX AROUND YOUR ANSWER



A.



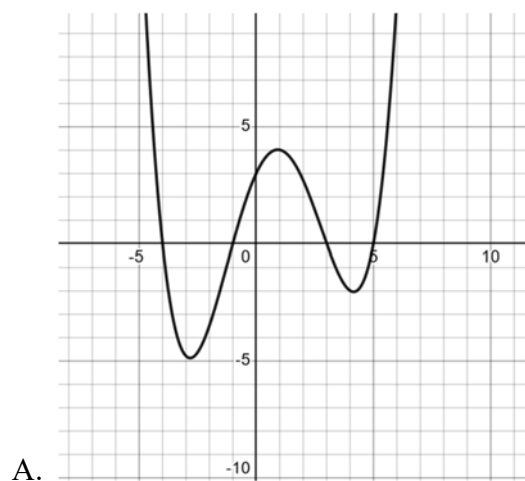
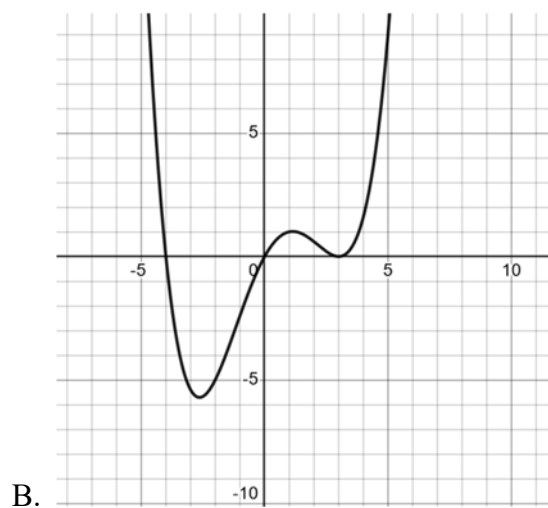
B.

3. (TOPIC N2)

$y = f(x)$ is a polynomial function whose graph is shown. Write the factorization of $f(x)$.

Assume the leading coefficient is 0.05

PLACE A BOX AROUND YOUR ANSWER



4. Solve each equation which has already been factored.

PLACE A BOX AROUND YOUR ANSWER(S)

A. $(2x-1)(4x+5)(x-2)(x+7)=0$

B. $x(x-5)(7x-1)(x+2)=0$

5. (TOPIC EP1). Simplify each expression involving the imaginary number i .
Convert expressions of “ i ” into a real number when applicable “add cinnamon.”

PUT A BOX AROUND YOUR ANSWER

A. $6i(2 - 5i)$

B. $(7 + 2i)(7 - 2i)$

C. $8(5 + 4i)$

D. $-3i(6i)$

E. $(2i + 3)(3i - 5)$

6. (TOPIC EP2) Simplify each radical expression.
Allow for imaginary numbers by using “i” when needed.

PUT A BOX AROUND YOUR ANSWER

A. $\sqrt{300}$

B. $9\sqrt{20}$

C. $\sqrt{-18}$

D. $4\sqrt{-72}$