Person 1: _____ **Person 2:** _____

Divide each polynomial using the method in the column heading. State your quotient and confirm your answer with your partner. If the quotients do not match, determine which person is incorrect and find the error. Move onto the next problem when both answers are the same.

LONG DIVISION	SYNTHETIC DIVISION
A) $(x^2 + 4x + 4) \div (x + 2)$	B) $(x^2 + 9x + 5) \div (x + 5)$
C) $(x^3 + x^2 - 9x - 9) \div (x + 1)$	D) $(x^3 - 2x^2 - 22x + 40) \div (x - 4)$
E) $(2x^4 - 4x^2 + 7x + 3) \div (x + 3)$	F) $(3x^4 - 2x^3 - 13x^2 - 16) \div (x - 2)$

Person 2: _____ **Person 1:** _____

Divide each polynomial using the method in the column heading. State your quotient and confirm your answer with your partner. If the quotients do not match, determine which person is incorrect and find the error. Move onto the next problem when both answers are the same.

SYNTHETIC DIVISION	LONG DIVISION
A) $(x^2 + 4x + 4) \div (x + 2)$	B) $(x^2 + 9x + 5) \div (x + 5)$
C) $(x^3 + x^2 - 9x - 9) \div (x + 1)$	D) $(x^3 - 2x^2 - 22x + 40) \div (x - 4)$
E) $(2x^4 - 4x^2 + 7x + 3) \div (x + 3)$	F) $(3x^4 - 2x^3 - 13x^2 - 16) \div (x - 2)$