1. (D) Factor and reduce: . Substitute 1 for x and the fraction equals .

2. (D) Factor and reduce the fraction, which becomes 3x + 2. As x approaches zero, this approaches 2.

3. (B) Factor and reduce . Substitute 2 for x and the fraction equals .

4. (D) Divide numerator and denominator through by x2. As x , the fraction approaches .

5. (D) Factor and reduce . Therefore a vertical asymptote occurs when 3x – 1 = 0 or , but this is not an answer choice. As x , . Therefore, is the correct answer choice.