

If each of the following pairs of expressions were denominators, determine the LCD:

1. $9(x+2)^2$ and $12x(x+2)$

2. $14x^2(x-1)^2$ and $21x(x+1)$

3. $4a^3(x-2)^2$ and $6a^2(x-2)^5$

4. $8x^2 - 72$ and $12x^2 - 72x + 108$

5. $20x^7 + 80x^6 + 80x^5$ and $80x - 5x^5$