

1. Fill each blank below with a limit law justifying that equality. Each blank is worth 1 point.

Fantastic!

Difference law for LIMITS

$$\lim_{x \rightarrow 2} 5x^2 - 3 = \lim_{x \rightarrow 2} (5x^2) - \lim_{x \rightarrow 2} 3$$

Constant Multiple law For LIMITS

$$= 5 \lim_{x \rightarrow 2} (x^2) - \lim_{x \rightarrow 2} 3$$

Power law for Limits

$$= 5 (\lim_{x \rightarrow 2} x)^2 - \lim_{x \rightarrow 2} 3$$

Sounds better... like daring + dangerous



OUT LAW X

(please read with that voice)



$$= 5(2)^2 - \lim_{x \rightarrow 2} 3$$

Constant Law (for limits)

$$= 5 \cdot 4 - 3$$

$$= 20 - 3$$

$$= 17$$

equality

tens

units

multiplication

subtraction