

LCOL Algebra 4 — Evaluating Expressions

LCOL · Algebra | Tutorial questions & answers | gktuition.ie

ON THE LCOL PAST PAPERS · Examined in 7 question-parts, 2017-2025 (main sittings) |
2025: P1 Q10(c)(i) · 2024: P1 Q5(a), P1 Q10(c)(i) · 2023: P1 Q7(a)(i) · 2019: P1 Q8(a)(i) ·
2018: P1 Q9(a)(i) · 2017: P1 Q9(e)(i)

How to use this sheet: these are the exact questions worked in this tutorial, in order. Try each one yourself first — the time it is posed in the video is shown, so you can pause before Paul solves it. Final answers are at the back; the full method is in the video.

Worked examples (in the video)

Worked example. $x = -2$ and $y = 3$ — evaluate $2x^2 + 6xy$ (swap the letters in, each in a bracket, then BMDAS). (*worked 00:14-02:23*).

Questions

Q1(a). $x = -6$, $y = -1$: evaluate $3x^2 + 14y^2x$.

Posed at 03:52 in the tutorial.

Q1(b). $x = -6$, $y = -1$: evaluate $2x - 7y + 14$.

Posed at 04:35 in the tutorial.

Q2(i). $a = -1$, $b = 3$: evaluate $2a^3 - b^2$.

Posed at 04:54 in the tutorial.

Q2(ii). $a = -1$, $b = 3$: evaluate $2a - 7ab$.

Posed at 05:20 in the tutorial.

Answers

Final answers only — pause the video and check yourself; the worked method is in the tutorial.

Worked example. $2(-2)^2 + 6(-2)(3) = 8 - 36 = -28$

Q1(a). $108 - 84 = 24$

Q1(b). $-12 + 7 + 14 = 9$

Q2(i). $-2 - 9 = -11$

Q2(ii). $-2 + 21 = 19$

Overlaps with these tutorials

LCOL Algebra 1 — Signs. Subbing in negatives is all about the sign rules — brush those up first.

LCOL Algebra 5 — Introduction to Equations. Instead of being told what X is, you work it out. Comes next.