

LESSON 6 | REVIEW AND RECONNECT

Unit 1 checkpoint and foundation repair

Thursday, October 29, 2026 . 6:00–7:00 PM Central

Today is for evidence and improvement

Review the foundations, complete the teacher-provided checkpoint, and use your work to choose what to practice next. These notes are a **revision guide**; they do not contain the graded checkpoint or its answer key.

Skill	Ask yourself	Revisit
Expressions	Did I substitute carefully and combine only like terms?	Class 1
Equations	Did I keep both sides equal and check my answer?	Class 2
Formulas	Did I isolate the requested letter and note restrictions?	Class 3
Functions	Does each input have exactly one output?	Class 4
Function notation	Did I find the output at the requested input?	Class 4
Inequalities	Did I handle the direction and endpoint correctly?	Class 5

A useful routine for today

Retrieve: try a question without notes.

Check: compare your reasoning, not only your final number.

Repair: name the exact step that went wrong.

Retry: solve a new question using the corrected idea.

The one-hour class includes a 20-minute checkpoint. Your teacher will decide which examples or questions to revisit from the evidence in your work.

LESSON 6 | WORKED CORRECTIONS

Repair the step, not just the answer

Repair 1 | Distribution with a negative

$$-2(x - 3) = -2x + 6$$

The second product is $(-2)(-3) = +6$.

If you wrote $-2x - 6$, you changed the second sign incorrectly. Try $x = 0$ to check.

Repair 2 | An equation with brackets

$$3(x + 2) = 2x + 11$$

Start with the original equation.

$$3x + 6 = 2x + 11$$

Distribute.

$$x = 5$$

Subtract $2x$ and then subtract 6.

Check: both sides equal 21 when $x = 5$.

Look carefully at...	The correct reasoning
$A = lw$	$w = A/l$, with $l \neq 0$. Divide the whole side by l .
$f(x) = x^2 + 1$	$f(-2) = (-2)^2 + 1 = 5$. $f(-2)$ is an output.
$-4x \leq 12$	$x \geq -3$. Dividing by a negative reverses the sign.

A stronger correction: “I forgot to multiply the second term by -2 ” tells you what to change. “I made a silly mistake” does not identify the next action.

LESSON 6 | PREPARE, THEN REFLECT

A short practice check-in

These are practice questions, not the graded checkpoint. Try them independently. Worked answers are on the next page.

1. Simplify $5a - 2a + 4$, then evaluate it at $a = 2$.

2. Solve $2(x + 1) = x + 7$.

3. $v = d/t$. Make d the subject. What condition is required by the original formula?

4. Does $\{(0, 1), (0, 2), (3, 4)\}$ represent a function? Explain.

5. If $g(x) = 3x - 4$, find $g(2)$.

6. Solve $-2x + 3 > 9$. Describe its number-line graph.

Choose a useful next step

Circle the class number you need to revisit: **1 . 2 . 3 . 4 . 5**. Use one worked example from that lesson, then attempt a fresh question without looking.

LESSON 6 | ANSWERS AND NEXT STEPS

Check, reflect and move forward

1. $5a - 2a + 4 = 3a + 4$. At $a = 2$, the value is $3(2) + 4 = 10$.
2. $2x + 2 = x + 7$, so $x = 5$. Both original sides equal 12.
3. Multiply by t : $d = vt$. The original $v = d/t$ requires $t \neq 0$. Retain that condition when describing an equivalent rearrangement.
4. **Not a function:** input 0 has two different outputs, 1 and 2.
5. $g(2) = 3(2) - 4 = 2$.
6. $-2x > 6$, so $x < -3$. Use an open circle at -3 and a ray extending left.

My correction plan

Write one specific response	Your notes
A skill I can now explain	
A step I still need to practice	
The lesson/example I will revisit	

Next chapter: connect equations to slopes, graphs and real data. Your teacher will use the checkpoint and your earlier work to guide support. A completed page is not the same as a demonstrated skill.