

## Post Video Questions

---

SAGE

---

```

1 post1 = function(a) {
2     return a==50 || a==74 || a==62;
3 };
4
5 isDerivative = function(a,b) {
6     return a.equals( b.derivative('x') );
7 };

```

---

Please answer each of these questions to the best of your ability. You are welcome to re-watch parts of any of the video to help you.

**Problem 1** Find the general antiderivative of  $f(x) = 4x^3 + 5 \cdot 9^x$ .   $+ C$

---

**Problem 2** Evaluate  $\int_5^6 6 \sin(x) - 3.4x^3 dx$

---



---

Learning outcomes:  
Author(s):