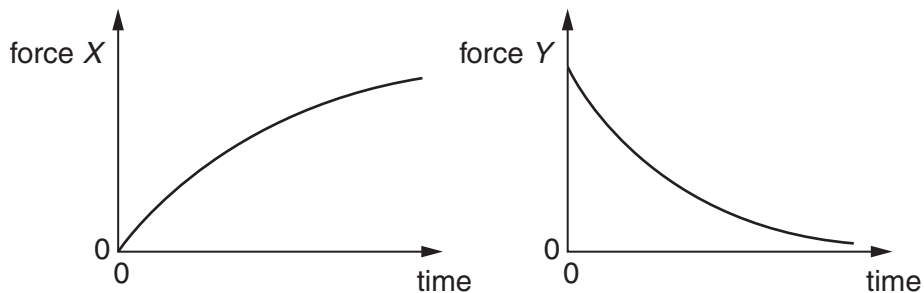


**15** A ball falls from rest through air and eventually reaches a constant velocity.

For this fall, forces  $X$  and  $Y$  vary with time as shown.



What are forces  $X$  and  $Y$ ?

|          | force $X$      | force $Y$       |
|----------|----------------|-----------------|
| <b>A</b> | air resistance | resultant force |
| <b>B</b> | air resistance | weight          |
| <b>C</b> | upthrust       | resultant force |
| <b>D</b> | upthrust       | weight          |

**16** Which of the following expressions defines power?