

```
usepackagemicrotype
usepackagegeometry
usepackagehyperref
hypersetuphidelinks
\lixextbookmicrotypegeometryhyperrefmulticolmargin = 1inhidelinks
```

# Setup Smoke Test

Generated by LaTeXify

November 10, 2025

## 1 page0004-chunk001

2 % chem snippet  
textbackslash[reflection across  $y = x$ ). ii Vertical li  
textbackslash]  
textbackslash[reflect graph of  $y = p(x)$  across  $y = x$  graph of  $p$ 1 Apply VLT top1 : some  
verticals cut the graph twice I  
textbackslash]  
textbackslash[= $Ra$   
textbackslash]  
textbackslash[= $\text{Dom}(p)$  b) fl i I  
textbackslash]  
textbackslash[reflection across  $y = x$ ). ii Vertical li  
textbackslash]  
textbackslash[vertical line across  $y = x$  a  
textbackslash]

## 2 page0009-chunk001

2  
textbackslash[= $f(x+1) + 3$  The  $a = 1$  i  
textbackslash]  
textbackslash[the  $k = 1$  i  
textbackslash]  
textbackslash[the  $d = 1$  (from  $x d = x(1) = x + 1$ ) i  
textbackslash]  
textbackslash[and the  $c = 3$  i  
textbackslash]  
textbackslash[ $d = 1 \cdot 1 + (1) = 2$   $y = a y + c = (1)(2) + 3 = 5$  Therefore, the result i  
textbackslash]

### 3 page0003-chunk001

2

textbackslash[= 2r2 + 2r 1 x = 2y2 + 2y 1 x + 1 = 2 ( y2 + y ) x + 1 = 2 [( y + 1 2 )2 1 4 ] x + 1 = 2 ( y + 1 2 )2 1 2 x + 3 2 = 2 ( y + 1 2 )2 x 2 + 3 4 = ( y + 1 2 )2 y + 1 2 = ± x 2 + 3 4 y = 1 2 ± x 2 + 3 4 p1(x) = 1 2 ± x 2 + 3 4 b) 3y + 5x = 18 3y + 5x = 18 3y = 5x + 18 y = 5 3 x + 6 x = 5 3 y + 6 x 6 = 5 3 y y = 3 5 (x 6) y = 3 5 x + 18 5 f1(x) = 3 5 x + 18 5 c) h(t) = 4.9(t + 3)2 + 45.8 x = 4.9(y + 3)2 + 45.8 x 45.8 = 4.9(y + 3)2 45.8 x = 4.9(y + 3)2 45.8 x 4.9 = (y + 3)2 y + 3 = ± 45.8 x 4.9 y = 3 ± 45.8 x 4.9 h1(x) = 3 ± 45.8 x 4.9 2 textbackslash]

### 4 page0001-chunk001

2 { "items": [ { "text": "Basic Advanced Functions — Part 1: Communication Problems textbackslashnYour Name textbackslashnOctober 28, 2025", "bbox": [0.0, 0.0, 1.0, 1.0], "source": "heuristic" } ] }

### 5 page0002-chunk001

2

textbackslash[Speed = Dista textbackslash] textbackslash[=400 t ( t ĩ0, km/h) b) A textbackslash] textbackslash[=v0 ( 1 2 )t/T1/2 v(t) = 125 ( 1 2 )t/5 c) Scott drives at a co textbackslash] textbackslash[= 50t Questio textbackslash]

### 6 page0008-chunk001

2

textbackslash[=f(x + 1)3 The d = 1 (si textbackslash] textbackslash[d = x (1) =x + 1) i textbackslash] textbackslash[ndicates a horizontal translation of1 unit to the left and thec = 3 i textbackslash] textbackslash[d = 1 1 + (1) = 0 y= a y+ c = 1(2) + (3) = 5 Therefore, the resulti textbackslash] textbackslash[=f(2x) The a = 1 i textbackslash]

textbackslash[axis and thek = 2i  
textbackslash]

## 7 page0005-chunk001

2 % chem snippet  
textbackslash[reflection acrossy = x). ii Vertical li  
textbackslash]  
textbackslash[reflect graph ofy = h(x) across y = x relatio  
textbackslash]  
textbackslash[=Ra  
textbackslash]  
textbackslash[=Dom(h) Questio  
textbackslash]  
textbackslash[= 2x2 8 4  
textbackslash]