```
from django.test import TestCase
from .models import Product, Category # Replace with your model paths
from .factories import ProductFactory # Assuming you have a factories.py file
class TestProductModel(TestCase):
  """Tests for the Product model."""
  def test_can_find_product_by_category(self):
    """Tests if products can be retrieved by their category."""
    # Create a category (assuming a Category model exists)
    category = Category.objects.create(name="Electronics")
    # Create products with the same category
    product1 = ProductFactory.create(category=category)
    product2 = ProductFactory.create(category=category)
    # Find products belonging to the created category
    found_products = Product.objects.filter(category=category)
    # Check if both created products are retrieved
    self.assertEqual(len(found_products), 2)
    self.assertIn(product1, found_products)
    self.assertIn(product2, found_products)
```